

Statistics

1986

A statistical supplement to the Annual
Report of the Minister of Natural
Resources for the year ending
March 31, 1986.

\$2.00



Ontario

Ministry of
Natural
Resources

Hon. Vincent G. Kerrio
Minister

Mary Mogford
Deputy Minister

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MINISTRY OF NATURAL RESOURCES

Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3

Hon. Vincent Kerrio.....	Minister of Natural Resources and Energy
Mary Mogford.....	Deputy Minister
R. M. Monzon.....	Assistant Deputy Minister, Administration
G. A. McCormack.....	Assistant Deputy Minister, Northern Ontario, Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6 Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
R. J. Bugar.....	Assistant Deputy Minister, Southern Ontario. Maple, Ontario LOJ 1E0 Algonquin region Eastern Region Central Region Southwestern Region

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office, Telephone (416) 965-2704

Deputy Minister.....	Mary Mogford.....	W-6320.....2704
Administrative Assistant.....	Mrs. I. Hart.....	W-6320.....5873
EXECUTIVE CO-ORDINATORS		
Forest Resources Group.....	K. A. Armson.....	W-3624.....4319
Outdoor Recreation Group.....	T. J. Millard.....	W-2341.....5661
Lands and Waters Group.....	M. R. Garrett.....	W-6626.....6046
POLICY AND PLANNING SECRETARIAT		
Director.....	L. A. Douglas.....	W-6450.....8422
Secretary.....	Mrs. M. Forbes.....	W-6450.....8422
Policy Officer.....	Ms. R. Booth-Horst....	W-6453.....6712
	E. E. Multamaki.....	W-6452.....6712
	M. D. Garscadden.....	W-6445.....6712
	R. P. Milligan.....	W-6455.....6371
Policy Officer		
Northern Ontario.....	C. D. Clark.....	(807) 475-1271
Policy Officer		
Southern Ontario.....	Robert J. McClure.....	832-2761
Strategic Planning and		
Support Officer.....	J. Don Ross.....	W-6446...5-6371
Special Projects Officer.....	James M. Kearns.....	W-6449...5-6371
Manager of Planning.....	Gord K. Rodgers.....	W-6447...5-2899
Resource Management		
Planning Specialist.....	John C. Slot.....	W-6451...5-2899
Co-ordinator Plan Input		
and Review.....	Ms. P. Hardy.....	W-6448...5-2899
Environmental Assessment		
Co-ordinator.....	R. D. Laprairie.....	W-6441...5-2899
Environmental Planner		
(Forest Resources).....	Albert Bisschop.....	W-6441...5-2899
Environmental Planner		
(Parks).....	John R. Pickering.....	W-6454...5-2899
Environmental Planner.....	Alan Parkinson.....	W-6441...5-2899

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres *

NORTHWESTERN REGION

Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	<u>112,097</u>	<u>224,661</u>

Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	<u>2,427</u>	<u>3,649</u>

Total, Region		<u>228,310</u>
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NORTHERN REGION

Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	<u>7,899</u>	<u>345,491</u>

Pt. Lake Abitibi	<u>790</u>	<u>790</u>
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Total, Region		<u>346,281</u>
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ALGONQUIN REGION

Algonquin Park	9,376	
Bancroft	4,239	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	<u>7,306</u>	<u>39,307</u>

Pt. Georgian Bay	<u>3,875</u>	<u>3,875</u>
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Total, Region		<u>43,182</u>
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SOUTHWESTERN REGION

Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	<u>6,889</u>	31,644

Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	<u>673</u>	<u>31,624</u>

Total, Region		<u>62,268</u>
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NORTH CENTRAL REGION

Atikokan	11,321	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	<u>28,451</u>	<u>190,803</u>

Lake Nipigon	5,006	
Pt. Lake Superior	16,017	<u>21,023</u>

Total, Region		<u>211,826</u>
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NORTHEASTERN REGION

Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	<u>22,535</u>	79,735

Pt. Lake Huron and Lake Superior	25,298	
Lake Nipissing	816	
Lake Wahnapiatae	<u>145</u>	<u>26,259</u>

Total, Region		<u>105,994</u>
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EASTERN REGION

Brockville	3,496	
Carleton Place	6,277	
Cornwall	5,594	
Napanee	6,537	
Tweed	<u>6,605</u>	<u>28,509</u>

Pt. Lake Ontario	4,333	<u>4,333</u>
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Total, Region		<u>32,842</u>
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CENTRAL REGION

Cambridge	7,141	
Huronias	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	<u>2,670</u>	<u>28,029</u>

Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	<u>741</u>	<u>8,850</u>

Total, Region		<u>36,879</u>
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TOTALS

47 Districts	968,179
12 Lakes	<u>100,403</u>

Area of Ontario	1,068,582
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* August 19, 1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office

Telephone (416) 965-2785

Executive Co-ordinator.....	K. A. Armson.....	W-3624...5-4319
Secretary.....	Miss O. Andrews...	W-3624...5-8538
Co-ordinator, Private land Forestry...	W. K. Fullerton...	W-3621...5-3040
Chief Forest Economist.....	Dr. F. Miller.....	W-3627...5-2785

FOREST RESOURCES BRANCH

Room W-3640, Main Office

Telephone (416) 965-2575

Director.....	L. Lambert.....	W-3646...5-2787
Secretary.....	G. Peters.....	W-3646...5-2575

FOREST PRODUCTION & CONTROL SECTION

Section Manager.....	J. R. Cary.....	W-3649...5-2575
Section Secretary.....	Mrs. M. Fleming...	W-3640...5-2575
Tree Seed & Forest Genetics Unit....	Ms. R. M. Rauter..	W-3634...3-1334
Tree Improvement Silviculturist.....	Ms C. Graham.....	W-3632...3-1334
Geneticist.....	J. V. Hood.....	W-3632...3-1334

Stock Planting Production Unit Spvr.	R. J. Reffle.....	W-3655...5-2575
Stock Production Analyst.....	A. Citro.....	W-3633...3-1334
Soil & Plant Analyst.....	V. Sadreika.....	W-3653...5-2575
Tree Distribution Co-ordinator....	H. H. Tiemann....	W-3654...5-2575
Silvicultural Data Controller.....	R. K. Crawford....	W-3648...5-2575
Professional Development		
Co-ordinator.....	W. Vonk.....	W-3621...5-2785
Technical Development Co-ordinator	Dr. D.C.F. Fayle..	W-3631...5-2785

STRATEGIC TARGETS & PROGRAM CONTROL SECTION

Section Manager.....	D. W. McGowan.....	W-3643...5-0378
Forest Production Analyst.....	J. A. Cooper.....	W-3650...5-2575

PRIVATE LAND FORESTRY SECTION

Section Manager.....	R. N. Staley.....	W-3630...5-2785
Agreement Forest Administrator.....	Mrs. J. Brown.....	W-3629...5-2785
Woodlands Improvement Clerk.....	P. B. Rutherford...	W-3645...5-0378

PEST CONTROL SECTION

Section Manager.....	B. H. McGauley....	Maple..832-2761
Provincial Entomologist.....	J. J. Churcher....	Maple..832-2761
Provincial Pathologist.....	Dr. J. A. Juzwik...	Maple..832-2761
Provincial Herbicide Specialist.....	Dr. R. A. Campbell.	Maple..832-2761
Provincial Applications Specialist..	S. A. Nicholson....	Maple..832-2761

CANADA-ONTARIO FOREST RESOURCE

DEVELOPMENT AGREEMENT

Administrator.....	Ms. A. L. Wells..863 Bay St.	5-2073
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ONTARIO TREE IMPROVEMENT AND FOREST
BIOMASS INSTITUTE (OTIFBI)

Maple, Ontario L0J 1E0 Telephone (416) 832-2761

General Manager.....	D. P. Drysdale.....	832-2761
Executive Officer.....	D. Morgan.....	832-2761
Technology Transfer Specialist.....	D. Bates.....	832-2761
Scientific Photographer.....	J. Robinson.....	832-2761

TREE IMPROVEMENT AND BIOMASS SECTION

Principal Scientist	Dr. G. Buchert.....	832-2761
Research Scientist Tree Breeding		
Hard Pine.....	Dr. G. Buchert.....	832-2761
Research Scientist		
Genecology Spruce.....	Dr. A. G. Gordon... Sault Ste. Marie	(705) 949-9461

Forest Biomass Unit Leader.....	H. W. Anderson.....	832-2761
Research Scientist Upland		
Silviculture.....	P. Jaciw.....	832-2761
Research Scientist, Biotechnology.....	Dr. R. H. Ho.....	832-2761
Research Scientist, Tree Seed.....	D. A. Skeates.....	832-2761
Research Scientist, Aspen		
Silviculture.....	D. Weingartner.....	Thunder Bay (807) 767-1607

Nursery/Greenhouse Arboreta

Unit Leader.....	K. Bennett.....	832-2761
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FOREST ECOLOGY AND SILVICULTURE SECTION

Principal Scientist.....	Dr. D. Burger.....	832-2761
Research Scientist, Boreal		
Mixed Woods.....	G. B. MacDonald.....	Thunder Bay (807) 767-1607
Biomath/Program Analyst.....	R. Forslund.....	Thunder Bay (807) 767-1607

Silviculture and Tree Biology

Unit Leader, Tree Physiologist	Dr. C. Glerum.....	832-2761
Tree Physiology Lab Scientist.....	Y. T. Kim.....	832-2761
Tree Physiology Lab Techologist.....	Dr. C. P. Chen.....	832-2761
Research Scientist, Plant Stock.....	S. J. Colombo.....	832-2761
Research Scientist, Artificial		
Regeneration - Boreal.....	Dr. K. M. McClain.....	Thunder Bay (807) 767-1607

Silviculture Specialist.....	G. Stroempl.....	832-2761
Manager, Midhurst Research Unit.....	R. Hutchison.....	Midhurst (705) 737-5510

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1986

Use	Bare Root Ministry	Container		Total
		Ministry	Contract	
Crown Land and Agreement				
Forest	47,215,560	8,750,363	70,483,959	126,449,882
W.I.A.	7,789,174	-	-	7,789,174
Other Private Land	14,525,898	-	-	14,525,898
Education or Science	812,320	-	-	812,320
Miscellaneous	-	-	-	-
TOTAL	70,342,952	8,750,363	70,483,959	149,577,274

FOREST TREES PRODUCED AND PURCHASED BY THE MINISTRY

Year	Bare Root Ministry	Container		Total
		Ministry	Contract	
1975	59,794,450	3,148,406	-	62,942,856
1976	50,944,733	5,346,866	-	56,291,599
1977	45,981,122	4,291,764	-	50,272,886
1978	48,291,842	5,461,375	-	53,753,217
1979	52,928,125	5,487,210	-	58,415,335
1980	61,453,461	7,944,817	-	69,398,278
1981	65,360,243	10,496,839	-	75,857,082
1982	69,448,150	13,950,538	-	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657
1984	67,472,981	14,743,138	25,256,448	107,472,567
1985	52,183,189	13,964,217	62,084,413	128,231,819
1986	70,342,952	8,750,363	70,483,959	149,577,274

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	67,001,439
hardwoods	<u>3,341,513</u>
Total	70,342,952
Container Stock (conifers)	
ministry facilities	8,750,363
contract facilities	<u>70,483,959</u>
Total	79,234,322
GRAND TOTAL	<u>149,577,274</u>

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1982	1983	1984	1985	1986
White Spruce	16,394,578	16,396,972	15,037,822	11,302,704	17,113,719
Black Spruce	17,155,688	18,847,802	35,772,366	48,298,559	57,819,505
Red Pine	7,493,071	6,707,858	7,125,973	4,771,746	6,087,527
Jack Pine	25,830,821	21,744,405	33,456,807	45,991,911	50,190,145
White Pine	6,451,959	7,595,781	7,575,437	9,809,085	9,119,240
White Cedar	2,806,775	2,984,424	2,355,744	1,788,336	1,253,611
Scotch Pine	1,545,425	906,075	1,874,825	2,346,725	2,831,925
Silver Maple	240,785	502,402	413,503	594,032	329,217
Norway Spruce	1,093,919	1,021,589	873,810	487,910	1,515,633
Carolina Poplar	532,351	404,549	404,128	302,230	463,823
Black Walnut	364,000	333,125	330,585	319,425	330,650
White Ash	283,281	57,218	100,099	71,706	382,825
European Larch	275,202	164,918	123,540	59,925	78,170
Yellow Birch	116,400	20,000	4,115	-	160
Red Oak	316,191	178,717	179,827	42,858	189,119
Black Locust	164,475	217,950	158,875	67,640	197,575
Tamarack	309,506	434,983	163,826	260,560	136,673
Hemlock	272	14,725	17,264	23,600	25
Cottonwood	-	-	-	-	-
Hybrid Poplar					
Rooted	108,484	53,042	52,504	26,730	20,036
Unrooted	1,061,811	1,079,038	954,520	935,081	1,077,430
Japanese Larch	293,631	129,350	162,350	102,350	31,250
Aspen, unrooted	-	7,880	-	-	-
Other Species	560,063	322,854	334,647	628,706	409,016
TOTALS	83,398,688	80,125,657	107,472,567	128,231,819	149,577,274

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in year ending March 31

County, District or Regional Municipality	1982	1983	1984	1985	1986
Algoma	190,825	251,205	373,630	255,078	210,115
Brant	129,055	122,125	169,600	144,345	191,400
Bruce	278,020	138,851	193,992	176,485	225,790
Cochrane	1,072,250	536,825	792,140	257,925	23,625
Dufferin	470,585	307,250	368,495	390,450	563,555
Dundas	68,475	73,972	121,360	75,901	295,890
Durham*	538,150	487,200	531,925	489,175	599,144
Elgin	209,899	189,162	197,437	216,217	241,585
Essex	188,513	199,307	225,781	138,837	268,897
Frontenac	193,486	112,800	115,110	152,325	230,250
Glengarry	166,500	136,350	74,800	129,550	141,500
Grey	503,740	487,980	568,150	529,653	724,550
Haldimand-Norfolk	485,492	520,725	468,362	488,959	643,780
Haliburton	33,800	26,800	23,700	36,850	36,000
Halton	137,575	105,385	182,883	126,515	142,000
Hastings	317,973	178,422	360,897	227,013	357,350
Huron	198,264	147,279	244,654	274,237	164,594
Kenora	189,175	519,125	529,050	264,375	310,775
Kent	233,185	320,655	270,300	157,050	185,550
Lambton	239,577	174,693	150,309	94,571	261,774
Lanark	203,900	155,000	158,850	143,700	167,550
Leeds & Grenville	333,375	249,795	328,626	266,150	275,777
Lennox & Addington	128,350	154,095	109,600	69,700	187,950
Manitoulin	15,100	16,350	20,125	10,600	15,075
Middlesex	433,402	440,800	480,350	329,960	557,295
Muskoka	68,150	57,845	56,459	154,650	121,050
Niagara	365,481	211,336	310,746	195,152	367,221
Nipissing	60,770	75,455	293,100	187,757	292,637
Northumberland*	530,657	423,148	387,473	266,280	321,995
Ontario*	2,610	1,700	-	570	-
Ottawa-Carleton	252,310	160,530	162,805	197,155	262,665
Oxford	197,278	175,996	150,975	136,680	258,540
Parry Sound	188,650	50,625	155,225	64,035	112,200
Peel	265,910	188,300	192,635	292,235	180,070

County, District or Regional Municipality	1982	1983	1984	1985	1986
Perth	135,535	169,190	114,115	93,650	155,100
Peterborough	133,920	148,111	217,215	174,562	233,655
Prescott	142,825	250,400	131,150	120,700	100,235
Prince Edward	71,650	72,100	166,150	173,700	185,600
Rainy River	101,750	13,650	67,940	382,900	186,467
Renfrew	229,550	282,925	595,720	207,750	373,420
Russell	174,655	128,150	133,855	144,732	221,223
Simcoe	1,143,650	1,006,995	1,096,576	1,061,074	1,300,620
Stormont	50,100	60,500	93,095	182,290	67,700
Sudbury	415,335	590,029	490,255	358,807	512,853
Thunder Bay	113,325	62,975	206,150	241,575	230,520
Timiskaming	12,250	23,400	154,950	43,850	30,125
Victoria	278,930	204,725	251,689	200,502	260,079
Waterloo	111,100	86,575	190,075	139,425	111,521
Wellington	709,700	798,607	675,938	938,051	847,381
Wentworth	324,423	299,198	350,579	244,825	266,840
York	410,582	438,280	478,705	471,518	504,410
Durham Regional Municipality	150	-	400	-	-

TOTALS

1982	13,449,912#
1983	12,032,896#
1984	14,184,101#
1985	12,120,046#
1986	14,525,898#

Excluding W.I.A.

* Totals do not reflect formation of the Regional Municipality of Durham

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1985

Agreement Holders	Term of Agreement	Released 1985-86	Added 1985-86	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961 - Mar. 2011	-	-	1,704.13
21 CONSERVATION AUTHORITIES				
Ausable Bayfield	Jan. 1983 - Mar. 2004			1,905.26
Cataraqui Region	Apr. 1971 - Mar. 1996			342.31
Catfish Creek	Apr. 1962 - Mar. 2002			254.55
Crowe Valley	Terminated Nov. 1985	80.94		
Ganaraska	Apr. 1977 - Mar. 2002			3,496.18
Grand River	Apr. 1961 - Mar. 2000			1,657.72
Grey Sauble	Jan. 1985 - Mar. 2005			4,495.55
Lakehead Region	May 1958 - Apr. 2008			670.85
Long Point Region	Apr. 1982 - Mar. 2000		19.22	2,611.55
* Lower Thames Valley	Apr. 1984 - Mar. 2004			121.41
Maitland Valley	Apr. 1955 - Mar. 2005			343.58
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000			785.38
Moira River	Apr. 1978 - Mar. 2000	40.47		6,766.66
Napanee Region	Oct. 1954 - Oct. 2004			2,732.44
Niagara Peninsula	June 1963 - Mar. 2003		20.25	95.52
Otonabee Region	Apr. 1976 - Mar. 2002			1,465.04
Raisin Region	Apr. 1971 - Mar. 2001			137.59
* Saugeen Valley	June 1985 - May 2005			5,285.39
South Nation River	Apr. 1975 - Mar. 2000		30.35	3,103.18
* St. Clair Region	May 1985 - Apr. 2005			60.70
Upper Thames River	Apr. 1961 - Mar. 2001			1,363.29
Sub-total		121.41	69.82	37,694.15

* Replacement Agreement

Agreement Holders	Term of Agreement	Released 1985-86	Added 1985-86	Total
8 TOWNSHIPS				
Charlottenburgh	Apr. 1975 - Mar. 1995			77.70
Cramahe	Apr. 1963 - Mar. 2003			65.56
Cumberland	July 1980 - June 2030			371.68
Darlington	Apr. 1971 - Mar. 1991			56.66
Machar	Sept 1963 - Aug. 1993			36.42
Mosa	Apr. 1963 - Mar. 2003			58.27
West Carleton	Apr. 1983 - Mar. 2003			174.34
Williamsburg	Apr. 1962 - Mar. 2002			161.87
Sub-total				1,002.50

Agreement Holder	Term of Agreement	Released 1985-86	Added 1985-86	Total
19 COUNTIES				
Brant	Apr. 1960 - Mar. 2000			40.19
Bruce	Apr. 1962 - Mar. 2002			6,106.03
Dufferin	Apr. 1971 - Mar. 1991			1,019.21
Grey	Apr. 1960 - Mar. 2000			3,481.19
Huron	Apr. 1960 - Mar. 2000			662.30
Kent	Apr. 1960 - Mar. 2000			30.51
Lanark	Apr. 1980 - Mar. 2000		259.81	4,066.81
Leeds & Grenville	Apr. 1975 - Mar. 1995			5,802.18
Lennox & Addington	Apr. 1960 - Mar. 2000			473.04
Middlesex	Apr. 1960 - Mar. 2000			980.96
Northumberland	Apr. 1981 - Mar. 2001			2,603.98
Oxford	Apr. 1961 - Mar. 2000			342.06
Peterborough	Apr. 1981 - Mar. 2001			80.94
Prescott & Russell	Apr. 1983 - Mar. 2003		20.23	10,601.23
Renfrew	Apr. 1960 - Mar. 2000			6,497.56
Simcoe	Apr. 1960 - Mar. 2000	.11	42.89	10,630.37
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000		40.47	3,233.63
Victoria	Nov. 1976 - Mar. 2000	.40		3,794.31
Wellington	Apr. 1963 - Mar. 2003			521.44
Sub-total		.51	363.40	60,967.94

Agreement Holders	Term of Agreement	Released 1985-86	Added 1985-86	Total
5 REGIONAL MUNICIPALITIES				
Durham	May 1980 - Apr. 2000			591.05
Halton	Apr. 1976 - Mar. 2000	.15		632.14
Ottawa-Carleton	Apr. 1974 - Mar. 2004		117.36	5,621.70
Waterloo	Apr. 1976 - Mar. 2001			304.54
York	Apr. 1977 - Mar. 2027			2,030.48
Sub-Total		.15	117.36	9,179.91

INDUSTRY

Domtar Inc	Apr. 1974 - Mar. 1999		522.29	1,422.31
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TOTAL 54 Managed Forest Areas

Added 1985-86	1,072.87
Released 1985-86	122.07
Total	111,970.94

SILVICULTURE OPERATIONS 1985-86
 Classification of Cutover Forest Land
 Area in hectares

	Crown Land	FMA's	Total Crown Lands	Agree- ment Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	94,877	81,375	176,252	1,418	780	6,722	185,172
Harvest Cut, unevenaged management	14,054	-	14,054	230	1,622	16,906	32,812
TOTAL	108,931	81,375	190,306	1,648	2,402	23,628	217,984

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1986

	Crown Land	Forest Management Agreements	Total Crown Land
REGENERATION			
Planting Bare Root Stock	11,864	10,861	22,725
Planting Container Stock	17,911	20,610	38,521
Planting Hybrid Poplar Cuttings	294	64	358
Seeding	6,949	11,734	18,683
Scarification	501	549	1,050
Strip Cutting	906	735	1,641
Seed Tree Cutting	2,188	173	2,361
Shelterwood Cutting	8,771	-	8,771
Clear Cutting	5,111	4,326	9,437
Total	54,495	49,052	103,547
RE-TREATMENT			
Re-treatment area included in planting and total regeneration figures above	2,509	1,953	4,462
TENDING			
Hand Cleaning	8,780	604	9,384
Herbicide Spraying	19,223	38,343	57,566
Thinning Improvement Cuts	8,474	371	8,845
Pruning	931	3	934
Fertilization Drainage	6	59	65
Total	37,414	39,380	76,794
SITE PREPARATION	45,379	49,308	94,687
UNEVEN-AGED MANAGEMENT	13,508	21	13,529
TOTAL AREA TREATED	150,796	137,761	288,557

Agreement Forests	W.I.A.	Sub-total	Other Patent Lands	Total
216	4,757	27,698	5,693	33,391
42	122	38,685	8	38,693
65	4	427	168	595
12	199	18,894	-	18,894
-	-	1,050	-	1,050
-	-	1,641	-	1,641
-	-	2,361	-	2,361
61	2	8,834	505	9,339
17	72	9,526	48	9,574
413	5,156	109,116	6,422	115,538
60	1,641	6,163	51	6,214
442	1,578	11,404	137	11,541
660	3,410	61,636	191	61,827
1,811	1,847	12,503	2,963	15,466
977	963	2,874	274	3,148
366	4	435	201	636
4,256	7,802	88,852	3,766	92,618
761	1,995	97,443	460	97,903
166	928	14,623	7,698	22,321
5,596	15,881	310,034	18,346	328,380

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1982	1983	1984	1985	1986
REGENERATION					
Planting Bare Root					
Stock.....	22,561	21,272	21,286	15,527	22,725
Planting Container					
Stock.....	6,357	7,305	17,889	36,963	38,521
Planting Hybrid Poplar					
Cuttings.....	31	19	286	100	358
Seeding.....	27,869	29,857	21,180	15,908	18,683
Scarification.....	1,653	817	1,110	879	1,050
Strip Cutting.....	2,879	1,445	718	1,145	1,641
Seed Tree Cutting.....	3,100	3,215	4,204	2,489	2,361
Shelterwood Cutting.....	7,738	9,431	10,308	9,232	8,771
Clear Cutting.....	4,909	7,552	14,121	8,960	9,437
Total.....	77,097	80,913	91,102	91,203	103,547
RE-TREATMENT.....	2,263	2,353	3,483	3,949	4,462
TENDING					
Hand Cleaning.....	3,686	5,844	6,282	7,696	9,384
Herbicide Spraying.....	19,668	26,165	21,125	42,023	57,566
Thinning Improvement Cuts....	6,679	6,698	6,908	6,591	8,845
Pruning.....	618	756	751	596	934
Fertilization Drainage.....	163	87	207	58	65
Total.....	30,814	39,550	35,273	56,964	76,794
SITE PREPARATION	53,289	67,583	74,064	83,808	94,687
MARKING	38,954	37,229	42,301	-	-
UNEVEN-AGED MANAGEMENT	-	-	-	11,769	13,529
TOTAL AREA TREATED	202,417	225,275	242,740	243,744	288,557

TREE SEED PROGRAM 1985-86

SEED COLLECTION

Seed Crop By Species	Volume Collected (hl)
Jack Pine	8,393.20
Black Spruce	1,774.25
White Pine	106.80
White Cedar	4.75
Red Pine	298.21
Other species	59.49
Total	10,636.70

1985 SEED DISTRIBUTION

Direct seeding	1,241,687,943
Nursery stock production	566,039,484
Container stock production	439,715,052
Research and miscellaneous	12,536,032
Total viable seed	2,259,978.511

SEED IN STORAGE AS OF MARCH 31, 1986

	Dryden	Angus	Total
No. of viable seed (billion)	3.198	12.456	15.654
No. of different species	2	55	
Total weight (kg)	11,978	41,560	53,538
Total value (million)	1,687	7,430	9,117

TREE SEED AREAS

Areas in hectares

Species	Seed Collection Areas	Seed Production Areas	Seed Orchards (areas planted to date)
Black Spruce	557.1	180.4	154.4
White Spruce	118.8	202.1	152.7
White Pine	348.0	594.5	124.9
Jack Pine	12,059.4	1,192.8	122.0
Black Walnut	0	0	1.5
Others	704.9	599.7	12.2
Total	13,788.2	2,769.5	567.7

1985-6 FORESTRY EXTENSION ACTIVITIES

Field inspections	9,090
Advisory service plans prepared	2,600
Volume of timber marked - sawlogs (cubic metres)	117,600
- pulpwood (cubic metres)	42,900
- fuelwood (cubic metres)	190,000
Forestry education activities	1,100
Total trees planted - private orders	14,525,898

THE WOODLANDS IMPROVEMENT ACT 1985-86

	No. of Agreements	Area in Hectares
New W.I.A. Agreements Activated in 1984-85	571	7,052
Total W.I.A. Agreements in effect to March 31, 1985	9,916	141,734
New Advisory Service Agreements Activated in 1984-85	69	1,978
Advisory Service Agreements in effect to March 31, 1985	295	5,251
Total Trees Planted - W.I.A.: 7,789,174		

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3610, Main Office

Telephone (416) 965-2731 or 963-2396

Director.....	E. Markus.....	W-3612...965-3948
Special Projects Co-ordinator..	R. P. Alton.....	W-3610.....3-2396

TIMBER ALLOCATION SECTION

Supervisor.....	K. E. Cleary.....	W-3611...3-2396
Timber Licensing Spvr.....	R. J. Beny.....	W-3610...3-2396
Senior Licensing Clerk... ..	F. C. Parris.....	W-3601...5-2731
Resource Economist.....	I. A. Nausedas.....	W-3601...5-2731
Industry Liaison Officer.....	W. D. Wardle.....	W-3625...5-2785
Statistician.....	O. J. Menezes.....	W-3601...5-2731

MANAGEMENT PLANS SECTION

Supervisor (acting).....	T. J. Tworzyanski.....	W-3522.....5-7631
Mensuration Unit		
Chief Mensurationist.....	J. A. Mervart.....	W-3526.....5-7631
Mensurationist.....	vacant.....	Rm 168.....5-9754 880 Bay St.
Forest Ecologist.....	G. Pierpoint.....	Rm 168.....5-9755 880 Bay St.
Biomathematician.....	F. L. Raymond.....	Rm 168.....5-9756 880 Bay St.
Methods and Procedures		
Analyst.....	D. C. MacIver.....	Rm 168.....5-9756 880 Bay St.
Planning Unit		
Planning Analyst.....	H. van Bers.....	W-3523...5-7631
FMA Co-ordinator (acting)....	P. Hynard.....	W-3524...5-7631
Asst. Planning Analyst.....	vacant.....	W-3525...5-7631
Mgmt. Planning Specialist....	vacant.....	.....

WOOD MEASUREMENT SECTION

Supervisor.....	vacant.....	W-3642...5-0378
Provincial Wood Measurement		
Training Officer.....	J. Bingley.....	W-3641...5-0378
Senior Data Processing Officer.	R. G. Johnson.....	W-3641...5-0378
Data Control Officer.....	P. A. Woods.....	W-3641...5-0378

FOREST MANAGEMENT INFORMATION SECTION

Supervisor.....	J. E. Osborn.....	W-3542...5-6914
Forest Resources Inventory Unit		
Supervisor.....	D. B. Cardwell.....	W-3544...5-6914
Darkroom Spvr.....	K. A. Robinson.....	W-3520...5-6914
Operations Manager.....	D. A. Trafford.....	W-3543...5-6914
Photo Interpretation Spvr....	A. K. Manley.....	W-3546...5-6914
Data Entry Spvr.....	J. Ferguson.....	W-3541...5-6914
Spec. Asst. For. Specialist..	M. A. Chaudhry.....	W-3545...5-6914
Proj. Leader, Map Revision...	D. R. Bennett.....	W-3540...5-6914

FORMAGAIN Unit

Supervisor.....	vacant.....	MLB-43...3-0822
Sr. Systems Dev. Officer.....	A. M. Lee.....	MLB-43...3-0882

MANAGEMENT UNITS

Areas in square kilometres at March 31

CROWN LAND FORESTS						
Year	Crown		Company		FMA	
	No.	Area	No.	Area	No.	Area
1982	82	333,571	15	156,006	8	52,406
1983	77	333,781	13	139,120	13	70,218
1984	75	321,122	12	126,461	17	88,971
1985	74	330,575	10	104,577	22	113,631
1986	77	336,864	14	70,909	26	141,030

AGREEMENT FORESTS

No.	Total Area	No.	Area
105	541,983	58	1,013
103	543,119	58	1,109
104	536,554	58	1,108
106	548,783	58	1,108
117	548,803	57	1,105

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1986

Areas in square kilometres

	Forest Management Units						Agreement Forests	
	Crown No.	Area	Company No.	Area	FMA No.	Area	No.	Area
Approved Mgmt. Plans	47	158,117	5	32,534	18	93,383	41	770
Forest Mgmt. Plans submitted for review and approval	7	18,513	2	8,056	1	9,758	-	-
Forest Mgmt. Plans being prepared	9	42,770	7	30,319	7	37,888	16	335
Plans are not req'd (Inactive)	14	113,660	-	-	-	-	-	-
Unalienated Crown Lands	-	3,804	-	-	-	-	-	-
Total	77	336,864	14	70,909	26	141,030	57	1,105

TIMBER LICENCES under the Crown Timber Act

Areas in square kilometres at March 31

Year	Under Section 2 (Sale by Tender)		Under Section 3 (Order-in-Council)		Under Section 5 (Salvage)	
	No.	Area	No.	Area	No.	Area
1982	34	48.0	412	181,297.1	58	643.0
1983	26	32.3	415	178,967.1	52	545.6
1984	34	37.4	442	159,133.5	29	407.9
1985	34	27.0	456	141,368.3	27	169.6
1986	35	27.6	443	111,578.5	32	389.0
Issued 1985/86	18	12.4	238	15,084.4	23	360.6

Under Section 6 (For. Mgmt. Agr.)		Total Licences	
No.	Area	No.	Area
8	61,788.8	512	243,776.9
13	79,627.8	506	259,172.8
17	88,998.9	522	248,577.7
22	113,122.2	539	254,687.1
26	145,288.6	536	256,384.7
4	32,166.4	283	47,623.8

Note: Number of District Cutting Licences/Permits issued during 1985/86 was 2,608; and timber supply agreements signed under Section 4 during 1985/86 was 9 bringing the current total to 23.

MILL LICENCES

Type of Mill	1981	1982	1983	1984	1985
Saw Mills, 8-hour capacity					
Lumber....over 50M fbm	60	59	58	55	53
Lumber....10M to 50M fbm	85	87	88	72	69
Lumber....under 10M fbm	608	593	613	599	610
Misc. Sawm Products	50	68	44	45	30
Saw Mills, Total	803	807	803	771	762
Veneer Mills	25	26	25	28	27
Pulp Mills	21	21	20	20	20
Total	849	854	848	819	809

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres and \$000s in years ending March 31

Species	1982	1983	1984	1985	1986
SOFTWOOD					
Balsam	718,975	586,883	638,428	723,544	809,984
Cedar	13,659	17,195	18,667	23,478	16,741
Hemlock	63,504	47,361	65,111	79,230	71,554
Jack Pine	5,362,713	4,135,200	5,182,626	5,618,274	5,578,024
Red Pine	183,663	168,759	193,575	197,854	400,155
White Pine	529,159	563,024	754,044	728,257	654,854
Spruce	7,724,772	6,707,133	8,423,622	8,987,681	8,407,276
Tamarack	2,330	1,168	2,740	1,311	3,725
Mixed	18,503	30,599	20,691	14,236	18,238
HARDWOOD					
Ash	2,021	1,558	1,516	3,770	1,956
Basswood	11,042	7,769	8,544	27,777	12,099
Beech	19,581	18,377	17,999	32,996	39,951
White Birch	77,523	93,562	83,668	180,990	253,340
Yellow Birch	105,982	78,058	94,616	106,382	109,828
Butternut	16	36	21	38	43
Cherry	1,373	1,584	2,046	2,269	1,830
Elm	39	165	35	19	18
Ironwood	1	1	2	1	1
Maple	219,345	164,317	204,384	447,911	364,855
Oak	11,389	10,415	14,190	13,960	23,937
Poplar	1,800,431	1,505,038	2,243,088	2,641,390	2,768,308
Mixed	647,366	648,316	743,663	852,633	257,607
TOTALS					
Softwoods	14,617,179	12,257,322	15,299,504	16,373,865	15,764,214
Hardwoods	2,896,121	2,529,198	3,413,771	4,310,135	3,833,773
Total	17,513,300	14,786,521	18,713,275	20,684,000	19,597,987
Value	\$42,453	\$35,037	\$47,151	\$60,965	\$60,413

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1986

Tree Species	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage Value \$
SOFTWOODS				
White Pine	654,854.339	711,904.47	2,156,301.56	2,868,206.03
Red Pine	203,817.664	186,029.30	626,252.16	812,281.46
Jack Pine	5,578,023.831	602,781.22	18,969,461.04	19,572,242.26
White Spruce	145,107.215	3,764.98	361,584.33	365,349.31
Black Spruce	660,987.408	29,096.17	2,446,672.08	2,475,768.25
Spruce, Mixed	7,601,181.691	825,842.29	26,129,592.00	26,955,434.29
Hemlock	71,554.181	19,455.40	221,324.70	240,780.10
Balsam	809,984.281	64,591.19	2,276,451.32	2,341,042.51
Cedar	16,741.176	3,584.34	49,887.43	53,471.77
Tamarack	3,724.591	175.67	11,184.16	11,359.83
Conifers, Mixed	18,237.669	5,591.82	12,561.73	18,153.55
Total Softwoods	15,764,214.046	2,452,816.85	53,261,272.51	55,714,089.36
HARDWOODS				
Maple	364,854.628	242,215.75	811,524.20	1,053,739.95
Yellow Birch	109,828.010	184,484.71	287,743.93	472,228.64
White Birch	253,339.649	114,228.84	179,483.68	293,712.52
Oak	23,936.682	30,074.90	46,772.01	76,846.91
Beech	39,950.573	12,755.08	96,894.57	109,649.65
Ash	1,956.289	2,411.53	4,735.80	7,147.33
Elm	17.695	36.07	43.75	79.82
Basswood	12,099.403	14,439.97	28,840.81	43,280.78
Butternut	43.456	65.54	95.67	161.21
Cherry	187.351	552.76	1,410.13	1,962.89
Poplar	2,768,308.104	293,651.31	2,067,262.42	2,360,913.73
Hardwoods, Mixed	257,608.631	102,824.31	171,035.58	273,859.89
Total Hardwoods	3,833,773.202	998,473.32	3,700,005.06	4,698,478.38
GRAND TOTAL	19,597,987.248	3,451,290.17	56,961,277.57	60,412,567.74

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

in cubic metres and \$000s in years ending March 31

Year	Stacked		Cubic	
	Softwood	Hardwood	Softwood	Hardwood
1980	4,698,427	770,447	6,559,707	715,644
1981	4,380,421	723,064	6,339,098	513,585
1982	3,889,894	558,760	5,070,186	611,389
1983	2,974,245	650,425	4,313,754	525,436
1984	3,192,571	499,699	5,354,306	903,933
1985	3,068,026	648,690	5,220,857	1,396,957
1986	2,758,354	613,599	4,858,816	992,904

Year	Foot Board Measure			Mass		Total	Stumpage Value
	Grade 1	Grade 2	Grade 3	Hardwood	Softwood		
1980	131,394	207,162	109,406	6,213,058		19,405,245	\$46,184
1981	90,064	144,986	70,785	6,475,267		18,737,271	\$43,727
1982	107,244	181,592	81,943	6,719,923		17,513,300	\$42,453
1983	79,545	131,481	71,228	6,040,406		14,786,521	\$35,037
1984	104,431	157,403	81,517	8,419,414		18,713,275	\$47,151
1985	150,831	283,953	200,338	9,714,347		20,684,000	\$60,965
1986	294,270	91,017	-	8,210,945	1,778,082	19,597,987	\$60,413

TIMBER HARVESTED ON CROWN LANDS BY REGION

Administrative Regions of Ministry of Natural Resources
in cubic metres in years ending March 31

Region	1982	1983	1984	1985	1986
Northwestern					
Softwoods	3,688,116	2,888,440	3,830,981	3,856,741	3,759,601
Hardwoods	71,194	76,868	90,337	135,361	137,303
North Central					
Softwoods	4,464,605	4,007,835	4,368,590	4,706,900	4,569,500
Hardwoods	923,375	847,995	1,133,546	1,533,812	1,485,805
Northern					
Softwoods	4,795,869	3,945,635	5,200,631	5,778,030	5,465,850
Hardwoods	538,589	533,394	781,957	740,893	757,997
Northeastern					
Softwoods	1,315,205	1,093,690	1,517,671	1,613,782	1,571,413
Hardwoods	766,063	523,773	703,510	949,961	710,428
Algonquin					
Softwoods	324,081	294,264	363,038	393,113	366,429
Hardwoods	492,500	442,689	606,772	847,382	643,844
Eastern					
Softwoods	29,304	22,852	18,595	23,928	31,422
Hardwoods	104,400	104,479	97,649	101,541	98,396
Central					
Softwoods	-	4,607	-	1,371	-
Hardwoods	-	-	-	1,183	-
Southwestern					
Softwoods	-	-	-	-	-
Hardwoods	-	-	-	-	-
Totals, Ontario					
Softwoods	14,617,179	12,257,322	15,299,504	16,373,865	15,764,214
Hardwoods	2,896,121	2,529,198	3,413,771	4,310,135	3,833,773
Grand Total	17,513,300	14,786,521	18,713,275	20,684,000	19,597,987

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES
in year ending March 31, 1986

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
STACKED, ROUGH				
White Pine	19,248.555	19,248.555	193,051.73	198,715.92
Red Pine	14,504.928	14,504.928	37,842.06	39,335.80
Jack Pine	807,076.669	806,974.440	2,690,755.27	2,758,165.74
Spruce, Mixed	1,221,420.695	1,221,416.336	4,211,408.89	4,357,253.01
Hemlock	0.054	0.054	0.03	0.25
Balsam	103,049.744	103,049.744	273,368.53	288,130.95
Cedar	6,425.341	6,409.690	19,001.38	19,720.15
Tamarack	3,363.301	3,363.301	10,118.90	10,187.11
White Birch	22,144.207	22,135.837	15,230.43	36,757.73
Poplar	426,834.628	425,314.618	293,475.03	328,553.06
Hardwoods, Mixed	2,664.294	2,664.294	1,691.83	1,691.83
SUB-TOTAL	2,616,732.416	2,615,081.797	7,745,944.08	8,038,511.55
STACKED, PEELED				
Jack Pine	109,564.053	109,340.079	407,094.24	412,392.88
Spruce, Mixed	419,081.342	412,912.142	1,558,836.30	1,589,886.75
Balsam	59,328.257	57,212.432	35,191.44	35,485.82
Poplar	93,556.000	89,562.442	74,318.37	78,204.81
SUB-TOTAL	681,529.652	669,027.095	2,075,440.35	2,115,970.26

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
CUBIC METRES				
White Pine	389,560.736	389,560.736	1,191,201.29	1,647,307.76
Red Pine	106,578.376	106,578.376	330,166.04	451,748.99
Jack Pine	925,989.557	926,008.323	3,211,763.22	3,278,464.28
White Spruce	145,107.215	145,107.215	361,584.33	365,349.31
Black Spruce	660,987.408	660,987.408	2,446,672.08	2,475,768.25
Spruce, Mixed	2,335,926.713	2,335,926.713	7,962,233.30	8,118,952.08
Hemlock	54,935.819	54,935.819	168,059.93	182,497.70
Balsam	160,801.908	160,801.908	529,274.36	545,226.99
Cedar	10,331.486	10,331.486	30,886.05	33,751.62
Tamarack	361.290	361.290	1,065.26	1,172.72
White Birch	63,901.086	63,901.086	45,323.78	75,791.06
Poplar	821,065.006	821,065.006	623,206.62	702,642.60
SUB-TOTAL	5,675,546.600	5,675,565.366	16,901,436.26	17,878,673.36
BOARD FOOT MEASURE, GRADE 1				
Maple	183,967.304	183,967.304	719,558.34	915,914.48
Yellow Birch	68,511.650	68,511.650	266,616.83	442,360.10
Oak	10,161.717	10,161.717	39,829.16	64,339.95
Beech	22,693.347	22,693.347	88,073.47	97,842.23
Ash	1,153.599	1,153.599	4,333.01	6,255.28
Elm	10.359	10.359	40.18	46.11
Basswood	6,645.167	6,645.167	26,091.50	37,956.45
Butternut	21.839	21.839	85.32	113.04
Ironwood	0.228	0.228	0.91	0.91
Cherry	1,105.010	1,105.010	5,206.32	6,377.54
SUB-TOTAL	294,270.220	294,270.220	1,149,835.04	1,571,206.09

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2				
Maple	59,073.592	59,073.592	30,027.18	40,959.79
Yellow Birch	13,031.670	13,031.670	6,601.84	8,816.04
Oak	4,593.657	4,593.657	2,243.14	4,458.85
Beech	9,578.149	9,578.149	4,892.21	5,836.06
Ash	484.369	484.369	240.84	566.82
Elm	0.681	0.681	0.35	0.39
Basswood	3,855.951	3,855.951	1,926.32	3,985.45
Hickory	0.545	0.545	0.28	0.33
Butternut	21.617	21.617	10.35	48.17
Ironwood	0.854	0.854	0.43	0.43
Cherry	376.143	376.143	187.42	259.86
SUB-TOTAL	91,017.228	91,017.228	46,130.36	64,932.19

Units of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
MASS-SCALED WOOD				
White Pine	217,634.517	246,045.048	772,048.54	1,022,182.35
Red Pine	72,240.569	82,734.360	258,244.06	321,196.67
Jack Pine	3,017,746.921	3,735,700.989	12,659,848.31	13,123,219.36
Spruce, Mixed	2,805,364.102	3,640,926.500	12,397,113.51	12,889,342.45
Hemlock	17,826.910	16,618.308	53,264.74	58,282.15
Balsam	450,146.285	488,920.197	1,438,616.99	1,472,198.75
White Birch	186,367.528	165,718.365	117,730.91	179,905.11
Poplar	1,418,669.371	1,432,328.833	1,076,235.78	1,251,486.64
Maple	159,210.540	121,813.732	61,938.68	96,865.68
Yellow Birch	36,968.094	28,284.690	14,525.26	21,052.50
Oak	11,999.969	9,181.308	4,699.71	8,048.11
Beech	10,036.563	7,679.077	3,928.89	5,971.36
Ash	359.279	274.891	134.37	297.65
Elm	8.698	6.655	3.22	33.32
Basswood	2,088.956	1,598.285	822.99	1,338.88
Cherry	456.044	348.929	178.90	220.55
SUB-TOTAL	8,407,124.346	9,978,180.167	28,859,334.86	30,451,641.53
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed	15,793.055	13,922.175	9,491.96	9,515.47
White Birch	1,240.176	1,240.176	950.63	996.51
Hardwoods, Mixed	72,681.306	72,681.306	47,174.71	70,415.92
SUB-TOTAL	89,714.537	87,843.657	57,617.30	80,927.90
FUELWOOD, CUBIC METRES				
Conifers, Mixed	4,315.494	4,315.494	3,069.77	8,638.08
White Birch	344.185	344.185	247.93	262.11
Poplar	37.205	37.205	26.62	26.62
Hardwoods, Mixed	171,457.896	171,457.896	114,266.04	193,143.80
SUB-TOTAL	176,154.780	176,154.780	117,610.36	202,070.61
FUELWOOD, MASS-SCALED				
Hardwoods, Mixed	12,364.206	10,846.938	7,928.96	8,634.25
SUB-TOTAL	12,364.206	10,846.938	7,928.96	8,634.25
TOTAL TIMBER CUT IN PROVINCE		19,597,987.248	56,961,277.57	60,412,567.74

Number of District Cutting Licences/Permits issued and included in the above: 2,608

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Establishments Number	Total Employees Number	Total Salaries & Wages \$000s	Fuel and Electricity \$000s
1980				
Logging	391	9,578	215,652	24,072
Wood Industries	778	21,348	328,793	33,475
Paper & Allied	349	47,861	926,779	279,530
Total	1,518	78,787	1,471,224	337,077
Furniture and Fixtures	607	23,703	340,550	11,254
1981				
Logging	418	9,003	230,052	30,562
Wood Industries	774	20,970	362,998	43,705
Paper & Allied	342	47,381	1,044,810	324,780
Total	1,534	77,354	1,637,860	399,047
Furniture and Fixtures	610	25,856	416,922	15,181
1982				
Logging	418	7,079	193,796	33,320
Wood Industries	794	19,015	334,260	46,144
Paper & Allied	347	43,917	1,078,919	351,385
Total	1,559	70,011	1,606,975	430,849
Furniture and Fixtures	644	23,684	398,558	19,285
1983				
Logging	472	7,826	227,797	39,425
Wood Industries	820	19,562	381,158	54,659
Paper & Allied	301	41,001	1,110,512	381,789
Total	1,593	68,389	1,719,467	475,873
Furniture and Fixtures	707	23,218	427,289	21,244
1984				
Logging	484	9,515	275,809	44,724
Wood Industries	850	20,005	417,280	59,582
Paper & Allied	340	41,279	1,173,324	408,250
Total	1,674	70,799	1,866,413	512,556
Furniture and Fixtures	713	24,050	471,923	21,687

Sector	Materials & Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1980			
Logging	365,267	668,003	319,883
Wood Industries	712,130	1,275,892	562,631
Paper and Allied	2,368,722	4,598,977	1,992,117
Total	3,446,119	6,542,872	2,874,631
Furniture and Fixtures	606,934	1,224,628	615,070
1981			
Logging	381,431	717,927	327,515
Wood Industries	791,939	1,436,082	619,138
Paper and Allied	2,702,821	5,129,829	2,136,084
Total	3,876,191	7,283,838	3,082,737
Furniture and Fixtures	718,103	1,455,964	755,591
1982			
Logging	346,243	678,892	287,982
Wood Industries	678,066	1,256,366	525,522
Paper & Allied	2,596,915	4,841,076	1,939,371
Total	3,621,224	6,776,334	2,752,875
Furniture and Fixtures	646,963	1,347,435	682,402
1983			
Logging	398,704	793,959	355,758
Wood Industries	848,804	1,572,204	698,513
Paper & Allied	2,676,283	5,041,628	2,010,011
Total	3,923,791	7,407,791	3,064,282
Furniture and Fixtures	726,011	1,527,767	785,223
1984			
Logging	514,580	922,640	394,618
Wood Industries	966,637	1,740,399	753,570
Paper & Allied	3,024,916	5,820,332	2,455,213
Total	4,506,133	8,483,371	3,603,401
Furniture and Fixtures	811,176	1,716,607	900,633

Note:

Furniture and Fixtures does not include furniture upholstery, re-upholstery and repair shops.

OUTDOOR RECREATION GROUP

Room W2340, Main Office Telephone (416) 965-5661

Executive Co-ordinator.....	T. J. Millard.....	W-2341...5-5661
Secretary.....	N. Ball.....	W-2340...5-5661
Enforcement Specialist.....	W. D. Gartley.....	W-2342...5-5661
Librarian.....	S. Louet.....	W-4540...5-6319

WILDLIFE BRANCH

Room W-2320, Main Office Telephone (416) 965-4252

Branch Director.....	D. W. Simkin.....	W-2327....4254
Wildlife Planning Co-ordinator.....	W. L. Sleeth.....	W-2325....7641

Program Development & Audit

Section.....	D. A. Hagan, Spvr.....	W-2321....4252
Habitat Development.....	D. M. Hogg.....	W-2309....7641
Deer/Caribou Program.....	R. A. Stefanski.....	W-2331....4252
Upland Game/Waterfowl Program...	J. L. Marcus.....	W-2332....4252
Moose/Bear Program.....	H. Smith.....	W-2323....4252
Non-game Program.....	I. E. Bowman.....	W-2330....4252
Wetland Habitat.....	V. A. Glooschenko.....	W-2322....7641
Extension Development Section.....	L. Whistance-Smith, Spvr	W-2326....4252
Wildlife Extension Officer.....	H. D. Jenkins.....	W-2320....4252
Wildlife Services Section.....	M. C. Smith, Spvr.....	W-2328....4252
Commercial Wildlife Program.....	M. Novak.....	W-2423....3345
Hunter Education.....	W. M. McKittrick.....	W-2306....7641
Legal Services.....	M. Chromec.....	W-2329....4252
Data System.....	J. M. Barbowski.....	W-2304....7641

Box 50, Maple, Ont. L0J 1B0 Telephone (416) 832-2761

Wildlife Research Section.....	C. D. MacInnes, Spvr....	Extension..241
Population Dynamics.....	D. J. Hussell.....	Extension..241
Bio-Electronic Scientist.....	Vacant.....	Extension..241
Field Studies Scientist.....	D. R. Voigt.....	Extension..241
Rabies Unit Leader.....	D. H. Johnston.....	Extension..241
Upland Game/Waterfowl Scientist.	H. G. Lumsden.....	Extension..241
Predator Scientist.....	G. B. Kolenosky.....	Extension..241
Disease/Parasites Scientist.....	E. M. Addison.....	Extension..241

HUNTING STATISTICS - Estimates compiled from hunters surveyed by mail

Year	RESIDENT			NON-RESIDENT		
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
MOOSE						
1979	70,770	529,400	10,110	7,220	54,600	1,580
1980	71,670	426,700	7,670	3,930	25,200	690
1981	66,850	405,500	7,630	3,110	19,400	460
1982	85,630	508,100	10,150	3,060	19,200	550
1983	69,780	537,400	8,640	2,080	13,300	410
1984	77,020	582,900	9,850	2,130	13,700	480
DEER						
1979	78,440	415,800	13,200	1,560	8,700	*370
1980	80,280	443,200	9,150	780	4,400	110
1981	84,590	469,500	10,610	590	3,000	70
1982	91,750	500,300	11,870	560	2,900	90
1983	99,690	573,400	18,930	510	2,800	80
1984	103,050	590,900	23,870	520	2,800	110
SMALL GAME *						
1976-77	242,310	3,388,000		8,530	62,300	
1978-79	226,693	2,975,400		8,724	55,100	
1979-80	214,550	2,829,600		10,520	65,700	
1980-81	220,020	2,781,300		11,170	76,100	
BEAR						
1981	8,170	58,300	1,370	12,230	81,400	3,700
1983	10,660	90,600	1,720	15,060	101,300	4,820
1984	9,160	80,400	1,300	15,260	102,600	4,970

* Includes deer harvested on moose licences.

 TOTALS

Year	Total Hunters	Hunter Days	Harvest
MOOSE			
1979	77,990	584,000	11,690
1980	75,600	451,900	8,360
1981	69,960	429,900	8,090
1982	88,690	527,300	10,700
1983	71,860	550,700	9,050
1984	79,150	596,600	10,340
DEER			
1979	80,000	424,500	*13,570
1980	81,060	447,600	9,260
1981	85,180	472,500	10,680
1982	92,310	503,200	11,960
1983	100,200	576,200	19,010
1984	103,570	593,700	23,980
BEAR			
1981	20,400	139,700	5,070
1983	25,720	191,900	6,540
1984	24,420	183,000	6,270

EXPENDITURE BY HUNTERS - (Excluding Licence Fees)

Survey Year*	Estimates compiled from Hunters Surveyed by Mail			
	Hunt	Resident	Non-Resident	Total
1979-80	Moose	22,833,000	3,803,000	26,636,000
1980-81	Moose	21,334,000	2,302,000	23,636,000
1981-82	Moose	23,576,000	1,929,000	25,505,000
1982-83	Moose	28,900,000	1,889,000	30,789,000
1983-84	Moose	28,856,000	1,597,000	30,453,000
1984-85	Moose	32,460,000	1,727,000	34,187,000
1979-80	Deer	14,892,000	548,000	15,440,000
1980-81	Deer	15,887,000	297,000	16,184,000
1981-82	Deer	18,163,000	229,000	18,392,000
1982-83	Deer	20,306,000	240,000	20,546,000
1983-84	Deer	24,038,000	230,000	24,268,000
1984-85	Deer	26,386,000	214,000	26,600,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Bear	2,233,000	5,352,000	7,585,000
1983-84	Bear	3,724,000	8,012,000	11,736,000
1984-85	Bear	3,385,000	8,398,000	11,783,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res.	Resident	Non-Res.	Resident	Non-Res.
1981-82	91,695	630	73,851	3,214	13,736	13,341
1982-83	101,712	570	92,393	3,111	13,817	14,639
1983-84	112,318	535	75,650	2,148	15,464	16,109
1984-85	114,729	556	89,492	2,201	13,696	16,160
1985-86	125,049	670	91,319	2,701	14,198	17,739

Year	SMALL GAME		TOTAL		Total
	Resident	Non-Res.	Resident	Non-Res.	
1981-82	337,736*	12,492	538,432	29,677	568,109
1982-83	338,279	11,202	546,201	29,522	575,723
1983-84	321,484	10,844	524,916	29,636	554,552
1984-85	306,682	11,332	524,599	30,249	554,848
1985-86	308,478	12,434	526,640	33,542	560,182

* Includes summer hunting tag.

FUR HARVESTS

in years ending June 30

Average Pelt value, 1984 \$		Totals from Sealing Officers' Reports and Fur Dealers' Returns			
		1982	1983	1984	1985
33.47	Beaver	143,352	141,648	119,080	133,011
35.13	Mink	30,372	21,575	16,183	16,107
54.26	Marten	60,705	58,522	64,545	30,671
61.79	Otter	9,506	10,189	7,576	9,145
204.08	Fisher	3,717	4,413	3,725	3,002
567.62	Lynx	2,913	2,888	1,707	495
134.72	Bobcat	30	47	26	15
4.73	Muskrat	435,741	617,459	450,634	540,943
24.50	Raccoon	150,932	126,636	72,844	87,344
.35	Red Squirrel	8,693	7,652	3,229	6,034
1.65	Weasel	6,314	3,941	3,281	3,690
49.25	Coloured Fox	25,462	21,929	19,629	18,362
20.22	Arctic Fox	217	106	44	116
56.63	Timber Wolf	1,311	1,154	884	1,003
33.50	Coyote	2,784	2,347	2,718	2,603
55.25	Black Bear	230	120	132	81
192.50	Wolverine	22	26	12	9
1.78	Skunk	425	536	264	147
36.00	Grey Fox	2	5	11	2
283.33	Polar Bear	28	4	19	23
10.99	Badger	2	7	7	1
2.31	Opossum	3	53	89	33
Total Pelts		882,761	1,021,257	766,639	852,837
Total Value		16,660,204	14,343,082	13,173,998	13,913,083

Total royalties collected in 1984-85 \$578,627.25

TRAPPER LICENCES, 1984-85

Registered.....	3,196 @ \$5.25 = \$16,779.00
Resident.....	7,605 @ \$5.25 = \$39,926.25
Farmer.....	897 @ \$0 = ---
Registered Treaty.....	3,304 @ \$1.00 = \$ 3,304.00
Land Owner.....	211 @ \$5.25 = \$ 1,107.75
Totals.....	15,213 \$61,117.00
Raccoon Hunters.....	2,998 @ \$5.25 = \$15,739.50

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960, and for new hunters under the age of 20 years in 1968. In 1983, it became mandatory for individuals born after December 31, 1954 to complete the training course before applying for the Hunting Licence Examination.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36
1982	1,295	34,430	638,663	38	4	42
1983	1,150	30,216	668,879	20	3	23
1984	1,175	33,117	701,996	34	4	38
1985	1,176	27,241	729,237	36	4	40

29 PROVINCIAL WILDLIFE AREAS

	Hectares
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3,925
Camden Lake Wildlife Management Area	1,052
Copeland Forest	1,760
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holiday Beach Provincial Park	198
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area	105
Hullett Provincial Wildlife Area	2,794
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5,666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1,457
Nonquon River Wildlife Area	1,133
Point Petre Provincial Wildlife Area	1,276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3,800
Rondeau Provincial Park	4,654
St. Edmunds Provincial Wildlife Area	6,799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

13 WILDLIFE EXTENSION
LANDOWNER AGREEMENT AREAS

	Hectare
Aylmer Ponds	43
Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Christie	340
Crooks Hollow	17
Hawk Cliff	34
Lake St. Lawrence	6,070
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Waterford Lakes	290
Willoughby Marsh	227

ENFORCEMENT STATISTICS 1985-86

District or Region	No. of Field Conservation Officers	No. of Deputy Conservation Officers	No. of Contacts by Conservation Officers	No. of F & W Warnings
Algonquin	27.5	84	31,346	1,303
Central	30.0	75	55,912	2,663
Eastern	31.0	27	50,778	1,589
Northern	26.0	34	42,756	1,381
Northeastern	33.5	73	41,852	106
North Central	22.0	18	35,377	1,517
Northwestern	27.0	25	53,999	1,469
Southwestern	29.5	78	100,589	1,985
Total	226.5	414	412,609	12,013

District or Region	No. of F & W Charges	No. of Other Charges	Total Amt. of F & W Charge Fines	Total Amt. of Other Charge Fines	Total Amt. of Fines
Algonquin	845	666*	66,139.00	34,702.00	100,841.00
Central	1,113*	746	105,852.00	39,957.00	145,809.00
Operation Falcon	138	-	32,000.00		32,000.00
Eastern	1,020	620	68,059.00	39,881.00	107,940.00
Northern	858	39	62,617.45	5,458.25	68,075.70
Northeastern	604	136	70,477.50	6,566.25	77,043.75
North Central	660	158	42,280.00	6,175.00	48,455.00
Northwestern	941	422	70,687.62	15,764.23	86,451.85
Southwestern	1,165	2,300	79,828.00	122,661.00	202,489.00
Total	7,344	5,087	597,940.07	271,164.73	869,104.80

* 599 charges were laid by Park Wardens, 29 by Deputy Conservation Officers and 19 by Fire

** Does not include charges or fines for "Operation Falcon" (Birds of Prey Investigations) - 59 F & W chages
 - 13 Customs
 - 40 Criminal Code
 - 26 Export/Import
 Fines: \$32,000/90 days in jail

Outdoor Recreation Group

PARKS AND RECREATIONAL AREAS
BRANCH

Room W-3329, Main Office Telephone (416) 965-5160

Branch Director.....	N. R. Richards.....	W-3329...5160
Policy Co-ordinator.....	F. L. Bishop.....	W-3328...2745
Secretary.....	Ms S. D. Hellman...	W-3328...5160
Operations Manager.....	J. Griffin.....	W-3342...1245
Operations Secretary.....	Mrs J. Miller.....	W-3340...1245
Operations Stenographer.....	N. G. Zagerman.....	W-3340...1245
Park Mgmt. Supervisor.....	B. van Staalduinen.	W-3343...1245
Parks Technician.....	M. Lynch.....	W-3346...1245
Visitor Services Supervisor.....	G. Forma.....	W-3347...1245
Parks and Recreational Areas Technician.....	D. White.....	W-3345...1245
Research and Computer Applications Supervisor.....	D. Hallman.....	W-3344...1245
Park Mgmt. and Research Technician.....	P. Walsh.....	W-3352...1245
Mgmt. Information Specialist.....	D. Driscoll.....	W-3351...1245
Mgmt. Information Clerk.....	Ms D. Alexander....	W-3353...1245
Planning and Development Manager.....	K. G. McCleary.....	W-3326...2745
Planning and Development Secretary....	vacant.....	W-3326...2745
Planning and Development Stenographer.	Ms R. Coombs.....	W-3310...2745
Planning and Development Clerk.....	Ms P. A. Naylor....	W-3330...2745
Planning and Development Typist.....	Mrs R. Watkins.....	W-3320...2745
Senior Landscape Architect.....	G. Pittenger.....	W-3330...2745
Landscape Architect.....	J. Huang.....	W-3330...2745
Supervisor, Environmental and Design Services.....	S. Cowan.....	W-3324...2745
Environmental and Design Services Engineer.....	J. Kolodziej.....	W-3322...2745
Draftsperson.....	Ms M. Lehoczky....	W-3330...2745
Project Development Officer.....	H. Miles.....	W-3323...2745
Mechanical Designer.....	G. Szepielewicz....	W-3320...2745
Sanitary Draftsperson.....	Mrs B. Manowski....	W-3320...2745
Architectural Draftsperson.....	B. Joyce.....	W-3320...2745
Supervisor Planning.....	R. Phillips.....	W-3301...2745
Special Projects Officer.....	vacant.....	W-3327...2745
Earth Sciences Planner.....	R. J. Davidson.....	W-3301...2745
Life Sciences Planner.....	T. J. Beechey.....	W-3301...2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Interior Campers	Campers	Average Days	Camper Nights	Total Visitors
1981	74,199	1,321,494	2.5	3,283,299	*5,948,528
1982	80,550	1,267,974	2.6	3,287,603	6,250,777
1983	85,131	**1,354,019	2.7	***3,726,427	****7,647,287
1984	-	1,461,904	2.6	3,764,006	7,337,892
1985	-	1,429,440	2.6	3,718,634	+7,524,003

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Service Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1984	67	30,886	96,711	92,725	14,566	17,723	74,684	60,154
1985	69	34,773	111,472	107,947	57,366	22,042	79,553	75,205

Indoor Facilities

Outdoor Self-Use Facilities

Indoor Displays Museums	Activity Centre	Other	Open Air Displays/ Exhibits	Inter- pretive Trails	Other Trails	Other
318,393	79,357	12,665	99,154	362,262	121,002	16,775
286,515	50,163	73,385	150,101	321,303	165,250	73,714

PUBLICATIONS

Priced	Other	Free
7,587	5	1,160,615
++91,377	84	1,406,308

TOTAL VISITOR SERVICES PROGRAM ATTENDANCE: +++1,397,057
1,608,789

GROWTH OF PROVINCIAL PARKS

Areas in hectares

Year	Camping Parks	Units	No.	Reserve Areas ha	No.	Provincial Parks ha
1981	97	20,757	101	949,726	131	4,252,960
			37	++++18,167		
1982	97	20,393	97	944,337	133	4,258,632
			37	18,167		
1983	97	20,526	144	++++790,132	138	5,476,369
1984	97	20,481	88	759,556	190	5,605,417
1985	97	20,472	55	695,868	220	5,657,287

- * Includes free day-use visitors.
- ** Includes interior campers.
- *** Includes interior camper nights.
- **** Includes interior visitors + traffic count visitors for Wasaga Beach Provincial Park.
- + Includes winter visitors (November 1, 1984 to March 31, 1985)
- ++ Includes publications produced by The Friends of Algonquin Park.
- +++ Publications not included.
- ++++ Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park.
- +++++ Recommended provincial parks area.

220 PROVINCIAL PARKS IN REGULATION IN 1985

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION				
RED LAKE				
Opasquia	473,000	-	-	-
Pakwash	631	60	1,560	3,119
Woodland Caribou	450,000	-	-	696
KENORA				
Rushing River	190	191	18,963	45,510
Sioux Narrows	129	71	5,951	11,306
FORT FRANCES				
Caliper Lake	134	92	5,397	10,254
Lake of the Woods	12,900	100	2,426	6,550
Sandpoint Island	900	-	-	-
DRYDEN				
Aaron	117	98	4,369	5,680
Blue Lake	354	188	17,541	35,082
Winnange Lake	4,745	-	-	-
SIOUX LOOKOUT				
Ojibway	2,630	50	2,954	4,726
IGNACE				
Sandbar Lake	3,157	75	6,089	9,743
Total, 13 Parks	948,887	925	65,250	132,666

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTH CENTRAL REGION				
ATIKOKAN				
Quetico	475,819	133	52,202	109,625
THUNDER BAY				
Arrow Lake	430	-	-	-
Kakabeka Falls	420	166	22,237	31,132
Kashabowie	2,055	-	-	-
Middle Falls	907	25	1,655	1,821
Sibley	24,435	200	11,362	24,997
Silver Falls	3,261	-	-	-
NIPIGON				
Lake Nipigon	1,458	85	1,974	2,961
Wabakimi	155,000	-	-	-
GERALDTON				
Klotz Lake	119	30	1,092	1,419
MacLeod	74	85	3,496	10,838
TERRACE BAY				
Neys	3,445	146	12,780	17,892
Rainbow Falls	575	225	12,383	16,098
Slate Islands	6,570	-	-	-
Total, 14 Parks	674,568	1,095	119,181	216,783

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHERN REGION				
HEARST				
Fushimi Lake	5,294	46	2,328	8,382
Nagagamisis	8,131	165	2,703	10,542
MOOSONEE				
Polar Bear	2,408,700	-	-	-
Tidewater	980	30	922	922
KAPUSKASING				
Rene Brunelle	2,964	122	4,324	12,540
COCHRANE				
Abitibi de Troyes	11,068	-	-	-
Greenwater	5,350	135	3,073	7,067
Kesagami	55,977	-	-	-
TIMMINS				
Kettle Lakes	1,261	165	6,088	20,089
KIRKLAND LAKE				
Esker Lakes	3,237	136	3,742	11,601
Kap-Kig-Iwan	292	64	2,958	5,028
CHAPLEAU				
Five Mile Lake	456	-	-	-
Ivanhoe Lake	1,589	149	4,643	12,072
Missinaibi Lake	44,061	50	2,516	10,064
The Shoals	10,644	46	1,886	4,150
Wakami Lake	8,806	65	4,006	17,224
Total, 16 Parks	2,568,810	1,173	39,189	119,681

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHEASTERN REGION				
WAWA				
Lake Superior	155,659	280	21,908	30,671
Michipicoten	289	-	-	-
Michipicoten Island	36,740	-	-	-
Obatanga	9,409	132	6,623	10,596
White Lake	1,726	185	16,417	26,267
SAULT STE. MARIE				
Batchawana	169	-	-	-
Pancake Bay	490	338	24,357	41,407
BLIND RIVER				
Aubrey Falls	4,860	-	-	-
Mississagi	2,883	100	3,407	9,881
ESPANOLA				
Chutes	108	134	15,319	21,447
La Cloche	7,448	-	-	-
SUDBURY				
Fairbank	105	160	7,045	21,135
Halfway Lake	4,730	215	15,509	48,077
Killarney	48,500	122	16,623	44,882
Mashkinonje	940	-	-	-
Wanapitei	2,700	-	-	-
Windy Lake	118	83	6,568	19,048
TEMAGAMI				
Finlayson Point	37	114	5,466	14,758
Lady Evelyn Smoothwater	72,400	-	-	-
W. J. B. Greenwood	465	-	-	-
NORTH BAY				
Antoine	12	30	97	338
Marten River	400	216	5,731	15,475
Restoule	1,200	278	6,272	27,596
Samuel de Champlain	2,550	216	7,024	16,857
South Bay	1,525	-	-	-
Total, 25 Parks	355,463	2,603	158,366	348,435

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
ALGONQUIN REGION				
PARRY SOUND				
Grundy Lake	2,554	520	18,583	55,748
Killbear	1,756	883	39,549	185,878
Oastler Lake	32	145	9,523	28,570
Sturgeon Bay	14	82	4,733	14,199
BRACEBRIDGE				
Arrowhead	963	389	28,918	69,403
Bigwind Lake	1,970	-	-	-
Hardy Lake	684	-	-	-
J. Albert Bauer	163	-	-	-
Mikisew	131	265	13,560	31,187
BANCROFT				
Lake St. Peter	25	62	4,479	8,957
Petroglyphs	1,555	-	-	-
Silent Lake	1,450	167	11,924	27,425
ALGONQUIN PARK				
Algonquin	765,345	1,385	144,493	404,580
PEMBROKE				
Bonnechere	113	113	4,832	17,396
Carson Lake	13	43	1,380	2,208
Driftwood	265	79	4,661	8,389
Foy Property	148	-	-	-
Westmeath	610	-	-	-
Total, 18 Parks	777,791	4,133	286,635	853,940

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
EASTERN REGION				
CARLETON PLACE				
Carillon	1,417	416	18,750	43,125
Fitzroy	185	245	17,132	34,263
Murphys Point	1,240	182	10,602	26,504
Rideau River	98	186	15,229	27,412
Silver Lake	43	148	10,569	22,195
Sharbot Lake	69	194	10,543	28,465
NAPANEE				
Bon Echo	6,644	530	29,749	101,148
Charleston Lake	902	250	28,129	64,697
Ferris	198	163	3,586	6,814
Frontenac	5,130	42	-	3,379
Lake on the Mountain	104	-	-	-
North Beach	89	-	-	-
Presqu'ile	937	393	33,312	93,273
Sandbanks	1,509	411	35,375	116,739
Total, 14 Parks	18,565	3,160	212,976	568,014

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
CENTRAL REGION				
LINDSAY				
Balsam Lake	449	489	30,376	85,053
Darlington	209	350	32,427	64,853
Emily	83	299	18,242	52,903
Mark S. Burnham	39	-	-	-
Quackenbush	40	-	-	-
Serpent Mounds	135	113	10,176	31,546
Wolf Island	222	-	-	-
HURONIA				
Awenda	2,917	200	14,822	38,538
Bass Lake	39	92	15,577	35,828
Boyne Valley	434	-	-	-
Devil's Glen	6	45	3,555	5,332
Earl Rowe	312	555	26,688	66,721
Mara	45	106	6,747	20,916
McRae Point	138	205	13,327	39,982
Mono Cliffs	631	-	-	-
Six Mile Lake	94	192	16,642	41,606
Springwater	47	-	-	-
Wasaga Beach	1,545	-	-	-
MAPLE				
Forks of the Credit	261	-	-	-
Sibbald Point	226	648	44,204	123,770
CAMBRIDGE				
Bronte Creek	640	-	-	-
NIAGARA				
Rock Point	187	126	12,070	28,969
Short Hills	661	-	-	-
Total, 23 Parks	9,360	3,420	244,853	636,017

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION				
SIMCOE				
Long Point	141	268	20,453	73,632
Selkirk	73	145	2,919	9,925
Turkey Point	311	365	10,942	27,354
AYLMER				
Iroquois Beach	227	232	14,346	47,341
John E. Pearce	68	-	-	-
Port Bruce	5	-	-	-
CHATHAM				
Holiday Beach	92	46	3,445	8,612
Pecche Island	153	-	-	-
Rondeau	3,254	226	19,288	57,863
Wheatley	241	210	18,287	43,888
WINGHAM				
Ipperwash	56	266	16,388	70,467
Pinery	2,533	1,080	100,831	272,814
Point Farms	308	199	17,569	45,679
OWEN SOUND				
Craigleith	66	172	18,056	37,918
Cyprus Lake	669	242	29,427	58,853
Fathom Five	9,976	-	-	-
Inverhuron	289	-	-	-
MacGregor Point	1,204	360	18,431	53,450
Pretty River Valley	808	-	-	-
Sauble Falls	20	152	12,608	35,302
Total, 20 Parks	20,494	3,963	302,990	843,098
WATERWAY PARKS				
Chapleau-Nemegosenda River	8,165	(Chapleau)	-	-
Larder River	2,500	(Kirkland Lake)	-	-
Little Abitibi	20,000	(Cochrane)	-	-
Makobe-Grays River	1,427	(Temagami/ Kirkland Lake)	-	-
Mattawa River	3,258	(North Bay)	-	-
Mississagi River	19,814	(Blind River, Espanola, Chapleau)	-	-
Opeongo River	955	(Bancroft)	-	-
Oxtongue River-Ragged Falls	382	(Bracebridge)	-	-
Winisk River	173,530	(Geraldton)	-	-
Total, 9 Parks	230,031	-	-	-

NATURE RESERVE PARKS

Adam Creek	50	(Kapuskasings)	-	-
Agassiz Peatlands	2,315	(Fort Frances)	-	-
Albert Lake Mesa	130	(Nipigon)	-	-
Arrowhead Peninsula	815	(Thunder Bay)	-	-
Bayview Escarpment	439	(Owen Sound)	-	-
Bonheur River Kame	800	(Ignace)	-	-
Butler Lake	3,400	(Dryden)	-	-
Cabot Head	4,514	(Owen Sound)	-	-
Castle Creek	1,075	(Thunder Bay)	-	-
Cavern Lake	189	(Thunder Bay)	-	-
Coral Rapids	12	(Cochrane)	-	-
Craig's Pit	530	(Terrace Bay)	-	-
Cranberry Lake	2,800	(Fort Frances)	-	-
Devon Road Mesa	60	(Thunder Bay)	-	-
Divide Ridge	235	(Thunder Bay)	-	-
Dividing Lake	350	(Bracebridge)	-	-
Duclos Point	111	(Maple)	-	-
Duncan Crevice Caves	161	(Owen Sound)	-	-
East Sister Island	53	(Chatham)	-	-
Edward Island	600	(Thunder Bay)	-	-
Fish Point	110	(Chatham)	-	-
Fraleigh Lake	825	(Thunder Bay)	-	-
Frederick House Lake	13	(Timmins)	-	-
Gibson River	168	(Huron)	-	-
Gravel River	763	(Terrace Bay)	-	-
Hope Bay Forest	353	(Owen Sound)	-	-
Kabitotikwia River	1,965	(Nipigon)	-	-
Kama Hills	1	(Nipigon)	-	-
Le Pate	250	(Thunder Bay)	-	-
Lighthouse Point	96	(Chatham)	-	-
Limestone Islands	450	(Parry Sound)	-	-
Lion's Head	526	(Owen Sound)	-	-
Little Cove	16	(Owen Sound)	-	-
Little Greenwater Lake	244	(Thunder Bay)	-	-
Livingstone Point	1,800	(Nipigon)	-	-
Lola Lake	6,572	(Dryden)	-	-
Matawatchan	65	(Pembroke)	-	-
Matawin River	2,615	(Thunder Bay)	-	-
Mississagi Delta	2,395	(Blind River)	-	-
Montreal River	44	(Sault Ste. Marie)	-	-
Nagagami Lake	1,650	(Hearst)	-	-
North Driftwood River	3	(Cochrane)	-	-
O'Donnell Point	875	(Parry Sound)	-	-
Ojibway Prairie	65	(Chatham)	-	-
Ouimet Canyon	777	(Thunder Bay)	-	-
Peter's Woods	34	(Lindsay)	-	-

NATURE RESERVE PARKS

Porphyry Island	107	(Thunder Bay)	-	-
Potholes	247	(Wawa)	-	-
Prairie River Mouth	380	(Terrace Bay)	-	-
Puff Island	9	(Nipigon)	-	-
Pushkin Hills	5	(Kirkland Lake)	-	-
Red Sucker Point	360	(Terrace Bay)	-	-
Sable Islands	1,996	(Fort Frances)	-	-
Schreiber Channel	13	(Terrace Bay)	-	-
Sedgman Lake	5,710	(Nipigon)	-	-
Sextant Rapids	4	(Cochrane)	-	-
Shallow River	2	(Cochrane)	-	-
Shesheeb Bay	275	(Nipigon)	-	-
Smokey Head/White Bluff	347	(Owen Sound)	-	-
Spruce Islands	970	(Fort Frances)	-	-
Stoco Fen	102	(Tweed)	-	-
Thackeray	116	(Kirkland Lake)	-	-
Thompson Island	145	(Thunder Bay)	-	-
Timber Island	44	(Napane)	-	-
Trillium Woods	10	(Aylmer)	-	-
Waubausheene Beaches	34	(Huron)	-	-
West Bay	1,120	(Nipigon)	-	-
Williams Island	8	(Cochrane)	-	-
Total, 68 Parks	53,318	-	-	-

	Area in hectares	Developed Campsites	Campers	Camper Nights
Total, 220 Parks	5,657,287	20,472	1,429,440	3,718,634

* 55 RECOMMENDED PROVINCIAL PARKS - 1985

Region, District Recommended Provincial Parks	Area in Hectares
--	------------------

NORTHWESTERN REGION

RED LAKE	
Pakwash Addition	2,070
Trout Lake	7,850

SIOUX LOOKOUT	
Albany River	65,360
Fawn River	4,700
Minnitaki Kames	4,340
Otoskwin - Attawapiskat River	3,400
Pipestone River North	53,250
Pipestone River South	25,720
Severn River	93,700
Windigo Point	380

IGNACE	
Brightsands River	22,800
White Otter L. Turtle R.	21,400

DRYDEN	
Gold Rock	710

Total, 13 Parks	305,680
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Region, District Recommended Provincial Parks	Area in Hectares
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NORTH CENTRAL REGION

NIPIGON

Pantagrue Creek

2,200

Windigo Bay

8,300

THUNDER BAY

Brightsands River

5,036

Kaiashk

230

Kopka River

11,000

La Verendrye River

4,390

TERRACE BAY

Steel River

9,570

GERALDTON

Albany River

62,723

Little Current River

9,830

Otoskwin-Attawapiskat River

69,542

White Otter Lake Turtle River

20,000

 Total, 11 Parks

 202,821

Region, District Recommended Provincial Parks	Area in Hectares
NORTHERN REGION	
CHAPLEAU	
Biscotasing	1,150
Missinaibi	86,450
TIMMINS	
Dana - Jowsey	2,550
GOGAMA	
La Motte Lake	510
Total, 4 Parks	90,660

Region, District Recommended Provincial Parks	Area in Hectares
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NORTHEASTERN REGION

BLIND RIVER Mississagi Extension	1,840
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SUDBURY French River	43,800
Sturgeon River	2,240

NORTH BAY Great Manitou Island	80
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ESPANOLA Misery Bay	697
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Total, 5 Parks	48,657
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Region, District Recommended Provincial Parks	Area in Hectares
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ALGONQUIN REGION

PARRY SOUND

Blackstone Harbour	12,250
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Round Lake	4,620
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BRACEBRIDGE

Chetwynd	520
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BANCROFT

Egan Chutes	320
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Kawartha Highlands	1,880
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Upper Madawaska River	750
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PEMBROKE

Bell Bay	1,630
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Bonnechere River	570
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Centennial Lake	3,830
-----------------	-------

Lower Madawaska River	1,770
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MacKenzie Lake Addition	1,530
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Ottawa River	450
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MINDEN

MacRae Addition	6,150
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Total, 13 Parks	36,270
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Region, District Recommended Provincial Parks	Area in Hectares
--	------------------

EASTERN REGION

BROCKVILLE

James Auld

3,810

Total, 1 Park

3,810

CENTRAL REGION

LINDSAY

Indian Point

860

HURONIA

Lavender Falls

390

Scott's Falls

410

NIAGARA

James N. Allen

280

Total, 4 Parks

1,940

Region, District Recommended Provincial Parks	Area in Hectares
--	------------------

SOUTHWESTERN REGION

AYLMER	
Komoka	500
OWEN SOUND	
Black Creek	770
Ira Lake	460
Johnston Harbour/Pine Tree Point	4,300
Total, 4 Parks	6,030
TOTAL, 55 Recommended Provincial Parks	695,868

* Recommended parks will be phased into the Provincial Parks system in the near future.

Outdoor Recreation Group

FISHERIES BRANCH

Room W-2347, Main Office Telephone (416) 965-7885

Branch Director.....	A. S. Holder.....	W-2347.....5947
Secretary.....	J. Mills.....	W-2348.....7885
Policy Development Co-ordinator..	J. T. Allin.....	W-2350.....7885
Client Services Section.....	C. A. Haxell, Mgr.....	W-2349.....7885
Secretary.....	F. Heffernan.....	W-2348.....7885
Information Co-ordinator.....	A. A. Wainio.....	W-2353.....7885
Data Systems Management		
Biologist.....	W. G. Simpson.....	W-2446.....7885
Economist.....	N. Bedi.....	W-2344.....7885
Commercial Development Co-ord..	J. C. Tilt.....	W-2455.....7885
Regulations Clerk.....	K. E. Jones.....	W-2456.....7885
Fish Culture Section.....	J. M. Byrne, Spvr.....	W-2448.....7886
Secretary.....	L. Lavallee.....	W-2448.....7886
Production Biologist.....	J. D. Hynes.....	W-2449.....7886
Fish Health Biologist.....	.....	W-2453.....7886
Fish Nutrition Specialist.....	C. Y. Cho..... (519) 824-4120	2212
Fish Assessment Biologist.....	A. J. Sippel.....	W-2450.....7886
Fish Culture Operations		
Co-ordinator.....	C. C. Mack.....	Maple..832-2761
Fish Culture Operations		
Specialist.....	F. S. Watson.....	Maple..832-2761
Engineer.....	H. K. Yoshida.....	W-2452.....7886
Environmental Dynamics Section...	D. P. Dodge, Spvr.....	W-2312.....7887
Secretary.....	B. Fernandez.....	W-2312.....7887
Habitat Enhancement Biologist..	R. M. Biette.....	W-2312.....7887
Aquatic Habitat Inventory		
Biologist.....	G. A. Goodchild.....	W-2312.....7887
Inventory Data Systems &		
Lab Specialist.....	G. E. Gale.....	W-2312.....7887
Aquatic Habitat Acidification		
Specialist.....	G. L. Beggs.....	W-2312.....7887

Box 50, Maple, Ontario L0J 1E0 Telephone (416) 832-2761

Fisheries Research Section.....	J. A MacLean, Spvr.....	Ext. 251
Secretary.....	M. Hirst.....	251
Age/Growth Studies &		
Environmental Stress.....	J. Casselman.....	251
Brook Trout Studies.....	J. H. Fraser.....	251
Community Dynamics.....	D. O. Evans.....	251
Stock Assessment &		
Genetics.....	P. Ihssen.....	251
Systems Ecology.....	B. Shuter.....	251
Population Ecology.....	B. Henderson.....	251
Salmonid Ecology.....	T. Kwain.....	251
Inland Lakes Research.....	L. Carl.....	251
Stock Dynamics.....	J. Reckhan.....	251

RESEARCH STATIONS

Fisheries Research Section.....	R. A. Ryder.....	(807) 683-6232
Box 5000, Thunder Bay, Ont	P. J. Colby.....	475-1635
P7C 5G6		
Sault Ste. Marie Research Stn....	.....	(705) 942-1411
875 Queen St. E.,		
Sault Ste. Marie, Ont. P6A 2B3		
South Baymouth Fisheries Lab.....	.....	(705) 859-3137
R.R. 1, Tehkummah, Ont. POP 2C0		
Wheatley Fisheries Research Stn..	S. J. Nepszy.....	(519) 825-4171
R.R. 2, Wheatley, Ont. NOP 2P0	J. H. Leach.....	4171
Glenora Fisheries Research Stn...	W. J. Christie.....	(613) 476-2400
R.R. 4, Picton, Ont. KOK 2T0	D. A. Hurley.....	2400
Harkness Lab (Algonquin Park)....	.....	(705) 637-2103
Box 110, Whitney, Ont. KOJ 2M0		

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)

Stocked from Ontario Fish Culture Stations (calendar year)

Species	E/F	1981	1982	1983	1984	1985
Coho Salmon	F	224	144	181	216	190
Chinook Salmon	F	12	270	222	685	703
Rainbow Trout	F	395	369	318	266	339
Brown Trout	F	-	71	134	165	166
Brook Trout	E	860	-	302	-	-
	F	1,459	824	1,757	1,127	1,138
Lake Trout	E	-	-	25	80	38
	F	2,636	2,517	1,874	2,959	3,240
Lake Trout Backcross	F	-	-	856	1,071	907
Splake	E	-	-	180	-	-
	F	684	927	104	205	351
Aurora Trout	F	30	-	21	10	11
Whitefish	F	-	13	15	15	32
Muskellunge	E	-	-	-	-	-
	F	791	1,146	902	1,290	1,470
Smallmouth Bass	F	160	-	-	136	4
Walleye	E	-	-	-	300	800
	F	29	31	156	354	2,296
Total		7,250	6,312	7,047	8,879	11,761

FISH STOCKING from Ontario Provincial Fish Culture Stations

For the fiscal year ending March 31, 1984

(E-Eggs)

Station	Species	Quantity	Weight (kg)
Codrington	Brown Trout	165,854	4,234
Chatsworth	Lake Trout	116,375	2,172
	Lake Trout Backcross	677,392	26,147
	Splake	823	1,120
	Whitefish	31,948	488
Deer Lake	Lake Trout	142,304	1,831
	Muskellunge	1,470,000	35
		76,000 E	
Dorion	Brook Trout	310,657	1,739
	Lake Trout	958,299	20,531
	Splake	43,180	273
Hill's Lake	Brook Trout	630,575	3,479
	Lake Trout	390,890	9,903
	Splake	45,850	583
Normandale	Rainbow Trout	220,822	3,569
North Bay	Brook Trout	800	91
	Lake Trout	45,722	560
		15,000 E	-
	Aurora Splake Trout	11,000	5
Pembroke	Brook Trout	55,850	606
	Lake Trout	146,170	3,043
Ringwood	Coho Salmon	183,195	4,110
	Chinook Salmon	584,095	3,071
Sandfield	Brook Trout	10	9
	Lake Trout	57,350	738
		38,000 E	-
	Lake Trout Backcross	295,808	6,240
	Smallmouth Bass	4,700	11
	Walleye	3,200	7
Skeleton Lake	Brook Trout	195,447	1,050
	Lake Trout	138,870	1,969
	Walleye	2,037,347	123
Tarentorus	Rainbow Trout	68,049	3,492
	Brook Trout	125,853	1,368
	Lake Trout	557,313	11,095
White Lake	Rainbow Trout	52,390	2,179
	Brook Trout	39,850	449
	Lake Trout	692,185	8,698
	Splake	45,400	281
	Walleye	404,826	219
		800,000 E	-
Total		12,030,941	
Tarentorus & white Lake			

PLEASE NOTE: Statistics for the 1985 Commercial Fish Harvest will not be available until October, 1986. For specific information, please contact Fisheries Branch, at 965-7885

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1984

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
Men employed	No.	285	714	22	74
FISHING BOATS					
12.2 m and over	No.	3	158	-	15
	tonnes	40	4,721	-	238
	Value \$	85,000	23,866,011	-	1,478,944
6.1 m to 11.9 m	No.	77	28	8	2
	Value \$	972,800	708,165	72,000	75,000
Under 6.1 m	No.	189	56	11	5
	Value \$	371,620	89,795	20,050	5,194
FISHING GEAR					
Gill Nets	Metres	1,104,800	9,987,193	-	432,200
	Value \$	775,587	7,168,985	-	514,767
Pound Nets	No.	-	43	180	-
	Value \$	-	80,300	156,000	-
Trap Nets	No.	112	284	140	118
	Value \$	84,600	1,216,000	31,500	230,941
Hoop Nets	No.	1,019	167	30	3
	Value \$	585,350	73,200	15,000	3,000
Seine Nets	Metres	2,396	4,033	4,379	-
	Value \$	19,600	55,000	17,300	-
Night Lines	No.	43,564	20,820	7,400	-
	Value \$	32,151	11,800	6,200	-
Dip Nets	No.	10	13	-	-
	Value \$	282	470	-	-
Trawl Nets	No.	-	336	-	-
	Value \$	-	776,085	-	-
Trammel Nets	Metres	-	20	-	-
	Value \$	-	13,800	-	-
SHORE INSTALLATIONS					
Freezers & Icehouses	No.	33	30	7	10
	Value \$	183,075	1,117,700	49,400	133,500
Piers & Wharves	No.	32	42	8	5
	Value \$	178,510	123,544	31,200	25,700
Net Sheds	No.	93	125	13	10
	Value \$	414,054	2,281,750	181,000	291,200
Miscellaneous	Value \$	637,850	56,500	-	-
NEW CAPITAL INVESTMENT					
Engines	Value \$	78,315	207,912	2,300	32,200
Hulls	Value \$	85,420	1,098,524	-	81,145
Fishing Gear	Value \$	163,016	1,293,363	2,580	47,641
Wheelhouse Equip	Value \$	10,850	186,419	-	22,889
Other Equipment	Value \$	6,170	-	-	-
TOTAL NEW CAPITAL INVESTMENT		343,771	2,786,218	4,880	183,875
TOTAL INVESTMENT		4,110,185	40,374,473	584,530	2,942,121

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1983

Classification	Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
Men Employed	38	32	21	382	20	1,588
FISHING BOATS						
12.2 m & over No.	9	6	9	8	-	208
tonnes	127	60	103	55	-	5,344
Value\$	477,684	290,000	500,000	321,000	-	27,018,639
6.1m to 11.9m No.	14	4	4	43	3	183
Value\$	157,700	13,500	33,100	315,166	12,000	2,359,431
Under 6.1m No.	22	10	11	209	12	525
Value\$	56,900	9,450	28,808	366,326	17,100	965,243
FISHING GEAR						
Gill Nets						
Meters	316,530	195,000	117,000	509,810	13,000	12,675,533
Value\$	294,600	85,930	92,900	332,922	10,850	9,276,541
Pound Nets						
No.	3	-	2	24	-	252
Value\$	4,500	-	6,000	192	-	246,992
Trap Nets						
No.	4	4	1	79	4	746
Value\$	5,000	2,000	2,000	103,510	4,600	1,680,151
Hoop Nets						
No.	1	7	1	53	128	1,409
Value\$	800	1,000	1,500	15,900	35,950	731,700
Seine Nets						
Metres	-	-	-	-	201	11,009
Value\$	-	-	-	-	1,100	93,000
Night Lines						
No.	-	-	-	-	1,600	73,384
Value\$	-	-	-	-	505	50,656
Dip Nets						
No.	-	-	4	22	-	49
Value\$	-	-	80	1,045	-	1,877
Trawl Nets						
No.	-	-	5	-	-	341
Value\$	-	-	10,000	-	-	786,085
Trammel Nets						
Metres	-	-	-	-	67	87
Value\$	-	-	-	-	600	14,400

		Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
SHORE INSTALLATIONS							
Freezers & No.		15	8	5	109	13	230
Icehouses	Value \$	67,000	74,500	33,500	561,719	3,563	2,223,957
Piers & No.		7	4	9	80	4	191
Wharves	Value \$	42,400	4,883	21,300	169,570	2,300	599,407
Net Sheds	No.	10	10	8	69	10	348
	Value \$	87,600	56,576	24,000	149,989	18,060	3,504,229
Misc.	Value\$	-	-	-	80,000	-	149,435
NEW CAPITAL INVESTMENT							
Engines	Value \$	2,826	400	6,658	58,893	3,850	393,354
Hulls	Value \$	-	-	6,650	26,945	-	1,298,684
Fishing Gear	Value \$	26,983	32,323	18,231	82,302	3,373	1,669,812
Wheelhouse Equip.	Value \$	10,136	4,881	6,500	12,913	-	254,588
Other Equipment	Value \$	-	-	650	-	-	6,820
TOTAL NEW CAPITAL INVESTMENTS		39,945	37,604	38,689	181,053	7,223	1,231,371
TOTAL INVESTMENT							
Georgian Bay		1,234,129					
North Channel		575,443					
Lake Superior		791,877					
Northern Inland Waters		2,598,392					
Southern Inland Waters		113,851					
TOTAL		53,325,001					

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	55	11,008	6,243	-	-
Bullhead	187,817	22,173	521	15	162
Burbot (ling)	-	494	-	11,967	3,592
Carp	36,924	40,861	27,925	12,446	1,218
Catfish	9,151	27,623	27,006	28,286	671
Chub (Deepwater Cisco)	-	-	-	454,456	179,055
Crappie	13,457	9,375	128	-	-
Eel	112,534	540	7	-	-
Lake Herring	1,987	-	-	1,861	11,449
Lake Trout	861	327	-	26,213	4
Lake Whitefish	32,984	5,372	-	895,579	59,171
Freshwater Drum	826	231,899	2,409	25,383	302
Northern Pike	1,228	6,487	1,221	154	1,437
Pacific Salmon	-	-	-	2,193	28
Rock Bass	8,208	12,051	1,102	1,739	453
Round Whitefish	-	4	-	5,511	8,387
Sauger	-	-	-	5	96
Shad	-	4,253	-	805	-
Smelt	15,028	7,468,616	-	301	788
Splake	-	-	-	-	8,095
Sturgeon	63	35	32	1,295	-
Sucker	30,785	7,842	6,125	24,921	12,188
Sunfish	60,330	30,823	6	2	-
White Bass	8,218	1,990,293	2,898	7,991	-
White Perch	30,152	320,303	198	154	-
Yellow Perch	381,009	4,092,461	2,123	211,563	31,971
Yellow Pickerel	556	1,864,574	69	128,669	4,909
Animal Food	28,926	296,608	-	58,662	465
Total Landings (kg)	961,099	16,444,022	78,013	1,900,171	324,441
Total Value (\$)	1,698,354	25,805,072	53,627	3,932,321	493,143

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value (\$)
Bowfin	-	-	-	-	17,306	6,566
Bullhead	-	-	53	3,757	214,498	197,171
Burbot (ling)	1,064	-	21,407	431	38,955	3,931
Carp	593	-	-	11,538	131,505	30,015
Catfish	140	-	18	3,606	96,501	98,555
Chub (Deepwater Cisco)	16	63,429	48,412	-	745,368	1,380,800
Crappie	4	-	7,163	1,141	31,268	80,751
Eel	-	-	-	800	113,881	225,724
Lake Herring	2,459	896,716	11	-	914,483	445,492
Lake Trout	437	145,577	19,159	-	192,578	386,307
Lake Whitefish	174,432	179,148	546,446	-	1,893,132	2,885,921
Freshwater Drum	-	-	-	-	260,819	50,440
Northern Pike	7,986	-	92,910	-	111,423	86,472
Pacific Salmon	315	-	-	-	2,536	4,998
Rock Bass	499	-	3	835	24,890	26,612
Round Whitefish	1,978	18,405	22	-	34,307	18,498
Sauger	-	-	14,799	-	14,900	27,075
Shad	-	-	-	-	5,058	318
Smelt	220	-	-	-	7,484,953	1,599,925
Splake	1,139	-	-	-	9,234	18,433
Sturgeon	-	-	6,515	-	7,940	37,316
Sucker	18,231	70,607	101,419	459	272,577	52,194
Sunfish	131	-	-	13,420	104,712	109,687
White Bass	-	-	-	93	2,009,493	1,878,271
White Perch	-	-	-	-	350,807	338,374
Yellow Perch	54,220	37,694	644	2,501	4,814,186	18,306,748
Yellow Pickerel	10,574	621	270,364	-	2,280,336	6,796,911
Animal Food	59,063	23,037	16,881	5,591	489,233	12,100

TOTAL LANDINGS (kg)

TOTAL VALUE (\$)

North Channel	333,501	609,151.00
Lake Superior	1,435,234	1,124,474.78
Northern Inland Waters	1,146,226	1,336,872.84
Southern Inland Waters	44,172	52,591.26
Total Landings	22,666,879	-
Total Value	-	35,105,606.46

ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Species	1980	1981	1982	1983	1984	1984 Value
Bowfin	9	20	13	45	18	7
Bullhead	241	234	204	221	215	197
Burbot (ling)	108	182	81	72	39	4
Carp	121	208	158	181	132	30
Catfish	85	117	96	111	97	99
Chub (Deepwater Cisco)	446	394	308	520	746	1,381
Pacific Salmon	17	38	27	69	3	5
Eel	168	112	32	69	114	226
Freshwater Drum	179	257	230	188	261	51
Goldeye	-	-	-	-	-	-
Lake Herring (Cisco)	1,464	1,456	1,122	589	915	446
Lake Trout	278	227	258	262	193	387
Lake Whitefish	1,681	1,748	1,765	2,226	1,894	2,886
Northern Pike	267	296	321	278	112	87
Rock Bass & Crappie	75	64	58	78	57	108
Round Whitefish	75	57	35	27	35	19
Sauger	17	20	28	20	15	28
Smelt	11,336	13,944	19,611	13,316	7,585	1,600
Splake	39	57	40	29	9	19
Sturgeon	21	20	20	22	8	38
Sucker (Mullet)	563	606	626	484	273	52
Sunfish	118	126	130	111	105	110
White Bass	904	896	1,579	2,076	2,010	1,878
White Perch	57	47	39	74	351	339
Yellow Perch	6,236	4,784	4,962	3,473	4,814	18,307
Yellow Pickerel	1,343	1,476	1,368	1,841	2,281	6,797
Animal Food	637	772	688	828	490	12
Total Landings	26,485	28,158	33,799	27,210	22,672	
Total Landed Value	\$23,644	\$31,767	\$36,788	\$27,837		\$35,113

ONTARIO COMMERCIAL FISH HARVEST

by waters in 000s kg. and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
1980	891	19,490	37	1,083	361
1981	1,163	20,334	93	1,461	346
1982	939	26,989	153	1,324	269
1983	1,025	20,363	122	2,126	270
1984	961	16,444	78	1,900	325

Year	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total	Total \$
1980	158	2,151	2,080	234	26,485	23,644
1981	314	2,060	2,154	233	28,158	31,767
1982	322	1,515	2,091	197	33,799	36,788
1983	381	1,079	1,691	153	27,210	27,837
1984	334	1,435	1,146	44	22,667	35,106

LAKE ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish
1980	176	-	164	5	22	72
1981	154	73	109	2	34	60
1982	120	13	29	2	37	69
1983	141	43	67	3	44	58
1984	197	37	113	2	15	61

Year	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	55	265	132	891	1,147
1981	48	563	120	1,163	1,930
1982	34	539	96	939	1,905
1983	29	580	60	1,025	1,880
1984	30	381	125	961	1,698

LAKE ERIE COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass
1980	56	10	151	11,296	888
1981	76	15	212	13,790	881
1982	54	19	190	19,556	1,556
1983	70	89	145	13,270	2,060
1984	50	41	232	7,469	1,991

Year	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	5,674	800	615	19,490	14,024
1981	3,795	956	609	20,334	20,261
1982	4,134	909	571	26,989	26,183
1983	2,539	1,400	790	20,363	17,748
1984	4,093	1,865	703	16,444	25,805

LAKE ST. CLAIR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Northern Pike	Rock Bass & Crappie
1980	7	14	5	1	1
1981	22	34	11	1	1
1982	30	74	17	1	2
1983	26	19	16	2	3
1984	28	28	3	2	2

Year	Sucker	White Bass	Yellow Perch	Other Species	Total	Total \$
1980	5	2	-	2	37	23
1981	11	5	1	7	93	53
1982	15	8	1	5	153	77
1983	26	6	5	9	122	76
1984	6	3	2	4	78	78

LAKE HURON COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	15	101	3	524	6
1981	14	219	3	594	4
1982	13	194	4	702	4
1983	12	252	11	1,300	4
1984	13	455	2	896	6

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	18	201	124	91	1,083	2,369
1981	49	246	124	208	1,461	3,255
1982	63	135	117	92	1,324	2,833
1983	30	227	129	161	2,126	4,231
1984	25	212	129	162	1,900	3,933

GEORGIAN BAY COMMERCIAL FISH HARVEST

by species 000s kg. and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	7	77	20	88	15
1981	2	57	12	105	8
1982	2	57	12	77	9
1983	1	124	10	37	6
1984	2	179	12	60	9

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	41	36	11	66	361	505
1981	28	49	11	74	346	669
1982	20	39	9	44	269	504
1983	22	29	7	34	270	478
1984	12	32	5	14	325	493

NORTH CHANNEL COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon
1980	-	73	6	1	4
1981	-	120	13	2	3
1982	-	171	9	1	2
1983	-	200	7	3	2
1984	-	175	8	2	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	34	7	13	20	158	279
1981	26	52	20	78	314	526
1982	27	39	20	53	322	618
1983	17	38	10	104	381	554
1984	19	55	11	64	334	609

LAKE SUPERIOR COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt
1980	240	1,282	212	225	17
1981	91	1,327	176	173	42
1982	18	901	189	164	17
1983	31	563	185	133	-
1984	64	897	146	179	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1980	77	38	-	60	2,151	2,606
1981	110	61	-	80	2,060	2,246
1982	124	61	1	40	1,515	2,063
1983	105	40	-	22	1,079	1,297
1984	71	38	-	40	1,436	1,124

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish
1980	91	27	154	32	765
1981	169	26	106	18	745
1982	70	40	200	48	629
1983	58	112	-	18	539
1984	39	48	-	19	547

Year	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1980	226	337	337	111	2,080	2,533
1981	246	358	363	123	2,154	2,641
1982	275	341	311	177	2,091	2,426
1983	248	259	292	165	1,691	1,421
1984	93	102	271	46	1,147	1,337

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and \$000s

Year	Bullhead & Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)
1980	57	71	-	4	15
1981	63	69	-	8	4
1982	63	34	-	11	19
1983	54	16	-	8	1
1984	8	12	-	3	1

Year	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1980	29	2	11	45	234	157
1981	34	3	15	37	233	186
1982	34	1	10	25	197	181
1983	26	5	12	31	153	152
1984	14	-	3	3	44	53

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	40' & Over	Under 40'	Gill M 000s	Pound Nets	Trap Nets	Hoop Nets
1980	1964	213	837	12,068	172	556	1630
1981	2043	237	885	12,616	160	689	1430
1982	2106	238	980	12,735	269	732	1504
1983	1981	251	770	12,579	207	776	1648
1984	1588	208	708	12,676	252	746	1409

Year	Seine M 00s	Freezers & Ice Houses	Wharves and Piers	Net Sheds	New Invest. \$000s	Total Value \$000s
1980	75	317	250	457	3,714	41,481
1981	77	291	275	476	5,447	54,676
1982	78	322	277	482	3,655	57,345
1983	89	277	243	444	3,327	58,775
1984	110	230	191	348	12,314	533,250

LANDS AND WATERS GROUP

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LAND MANAGEMENT BRANCH

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Secretary.....	Mrs. B. Bourne.....	W-6643.....1316
Admin. Asst.....	Mrs. B. Luksis.....	W-6643.....1316
Training Co-ordinator.....	C. Turnpenney.....	W-6644.....1607
Public Lands Section.....	J. Morton, Spvr.....	W-6603.....2741
Public Lands Management.....	L. Fleguel.....	W-6621.....4507
Water Power.....	W. P. Small.....	W-6621.....2743
Land Appraisals and Property Management Officer.....	J. Hogan.....	W-6629.....2742
Land Management Planning.....	N. C. Gordon.....	W-6604.....2742
Land Acquisition Officer.....	A. D'Angelo.....	W-6629.....2743
Mining Lands Section.....	J. C. Smith, Spvr.....	W-6602.....1380
Mining Lands Administrator.....	T. Soobrian.....	W-6610.....4888
Mining Lands Administrator.....	R. Pichette.....	W-6610.....4888
Titles Section.....	J. G. Sherman, Spvr.....	W-6645.....1319
Document Officer.....	C. D. Egerton.....	W-6645.....1319
Acreage Tax Administrator.....	Mrs. D. Holland.....	W-6645.....1319
Records Officer.....	R. E. Dixon.....	W-6645.....1319
Land Records Manager.....	V. Prasad.....	W-6645.....1319
Resource Access Section.....	P. Brook, Spvr.....	W-6646.....5735
Policy Development Officer.....	L. A. Jackson.....	W-6646.....5735
Aggregate Resources Section.....	D. Scott, Spvr.....	W-4646.....1172
Aggregate Enforcement Policy Advisor.....	J. Masham.....	W-4647.....3127
Aggregate Policy Development Officer.....	S. A. Buszynski.....	W-4645.....3127
Pits & Quarries Rehabilitation Specialist.....	B. Messerschmidt.....	W-4642.....3127
Projects Officer.....	G. Bell.....	W-4643.....3127
Fuel Minerals.....	S. Keen, Spvr.....	W-6641...3-1882
Senior Policy Advisor.....	J. N. Fox.....	W-6641...3-1882

PUBLIC LANDS in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1981	890	1,093	162	276	100	3,066
1982	690	2,385	211	448	113	845
1983	1,093	1,517	114	208	96	472
1984	1,324	8,674	110	365	90	106
1985	1,591	1,788	100	189	101	92
1986	1,030	5,363	74	68	84	550

LANDS ACQUIRED BY CROWN in years ending March 31

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased or Otherwise Acquired	Forfeitures
	ha	ha	ha	ha
1981	1.20	0.16	703	3,600
1982	492	-	722	6,275
1983	661	-	1,402	4,047
1984	482	1	520	2,832
1985	757	-	711	4,047
1986	440	130	734	497

USE OF ACQUIRED LANDS areas in hectares, years ending March 31

Year	Provincial Parks	Lands General	Sport Fisheries	Wildlife Mgmt.	Timber Mgmt.	Total	Interim Property Mgmt.
	ha	ha	ha	ha	ha	ha	
1976	2,143	12	6	163	-	2,325	-
1977	630	140	81	248	2	1,101	35,424
1978	548	4.04	-	111	4,332	4,995	36,095
1979	2,028	79	-	-	3	2,110	34,715
1980	2,350	109	16	-	5	2,480	35,008
1981	549	-	51	3	100	703	34,692
1982	588	32	47	24	31	722	26,633
1983	261	56	146	213	726	1,402	25,113
1984	420	2	-	-	98	520	20,280
1985	504	79	4	101	23	711	13,687
1986	151	243	1	73	266	734	14,421

VALUE OF ONTARIO FUEL & STRUCTURAL MATERIALS OUTPUT BY MNR REGION

REGION	1983 \$	1984 \$
ALGONQUIN REGION		
Structural Materials	7,194,430	8,539,362
CENTRAL REGION		
Natural Gas, Petroleum	1,229,210	1,119,386
Structural Materials	304,650,987	358,368,545
	305,880,197	359,487,931
EASTERN REGION		
Structural Materials	119,304,217	131,719,952
NORTH CENTRAL REGION		
Structural Materials	8,965,836	7,945,640
NORTHERN REGION		
Structural Materials	11,837,550	4,602,866
NORTHEASTERN REGION		
Natural Gas, Petroleum	3,420	-
Structural Materials	32,060,558	33,387,954
	32,063,978	33,387,954
NORTHWESTERN REGION		
Structural Materials	7,140,509	11,301,325
SOUTHWESTERN REGION		
Natural Gas, Petroleum	60,808,340	84,622,963
Structural Materials	147,593,421	165,830,847
	208,401,761	250,453,810
ONTARIO TOTAL	700,788,478	807,438,840

ONTARIO FUELS & STRUCTURAL MATERIALS PRODUCTION IN 1984 AND 1985

		1984		1985	
	Unit	Quantity	Value	Quantity	Value
FUELS					
Natural Gas	000 cu.m.	548,169	68,466,289	589,863	73,143,000
Petroleum	cu.m.	90,375	17,276,060	112,953	24,737,000
Total Value, Fuels			85,742,349		97,880,000
 STRUCTURAL MATERIALS					
Clay Prod.	-	N/A	82,671,246	N/A	91,725,000
Cement	tonne	3,582,611	225,320,319	3,871,000	292,225,000
Lime	tonne	1,646,615	98,100,718	1,647,000	98,821,000
Sand & Gravel	tonne	57,419,176	136,124,510	69,250,000	167,400,000
Stone	tonne	41,386,602	179,479,698	40,000,000	175,000,000
Total Value, Structural Materials			721,696,491		825,171,000
 GRAND TOTAL FOR ONTARIO					
			4,420,324,925		4,383,849,000

N.B. Source of statistics is 1985 Ontario Mineral Score, published by Mineral Statistics Section, Ministry of Northern Development and Mines.

1985/86 M.N.R. ROADS PROGRAM

REGION	kms Con./Recon.	Bridges Con./Recon	Expenditures (\$000s)	kms Maintained	Expenditures (\$000s)
Northwestern	7.2	-	143.5	495.8	375.6
North Central	71.6	3	1,235.6	1,140.9	480.9
Northern	17.0	-	385.3	743.2	658.5
Northeastern	3.2	22	1,046.0	1,516.8	453.9
Sub Totals	99.0	25	2,810.4	3,896.7	1,968.9
Algonquin	3.0	-	55.0	616.6	365.1
Eastern	-	-	-	448.0	134.9
Central	5.7	-	34.1	121.6	62.4
Southwestern	-	-	-	33.6	6.2
Sub Totals	8.7	-	89.1	1,219.8	568.6
PROVINCIAL TOTALS	107.7	25	2,899.5	5,116.5	2,537.5

Program includes: Forest Access, Agreement Forest, Cottage Access, Ministry Service, Recreation, Public Transport and Private Forest Roads.

1985/86 NORTHERN ONTARIO RESOURCES
TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR portion only)

REGION	kms Con./Recon.	Bridges Con./ Recon.	Expendi- tures (\$000s)	kms Main- tained	Expendi- tures (\$000s)	kms Winter Road	Expendi- tures (\$000s)
Northwestern	14.7	1	\$1,229.4	78.0	\$39.1	235.0	\$376.4
North Central	-	-	28.6*	-	-	-	-
Northern	8.1	-	1,100.7	-	-	290.0	153.8
Northeastern	-	-	-	12.0	23.7	-	-
TOTAL	22.8	1	\$2,358.7	90.0	\$62.8	525.0	\$530.2

* Pre-engineering work

1985/86 NORTHERN ONTARIO RESOURCES TRANSPORTATION
COMMITTEE - INDIRECT PROGRAM (COMPANY) - (MNR Portion Only)

REGION	kms Con./Recon	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	17.2	-	\$189.0
North Central	10.9	-	205.8
Northern	-	-	13.5*
Northeastern	46.0	-	287.7
Algonquin	4.8	-	26.0
TOTAL	78.9	-	\$722.0

\$15.0 expenditure for Snowmobile Trails
TOTAL N.O.R.T.C. EXPENDIURE - \$3,688.7

* Pre-engineering work

1985/86 FOREST MANAGEMENT
SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	31.8	-	3,646.4
North Central	21.2	-	4,458.8
Northern	-	-	-
Northeastern	10.4	-	1,500.7
Contract Staff	-	-	64.5
TOTAL	63.4	-	\$9,670.4

COMPANY PROJECTS			
REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures (\$000s)
Northwestern	-	-	-
North Central	-	-	-
Northern	23.3	-	325.1
Northeastern	-	-	-
TOTAL	23.3	-	\$325.1
TOTAL PROGRAM	86.7	-	\$9,995.5

* FMSA Program is co-funded by the federal and provincial governments.

1985/86 FOREST MANAGEMENT AGREEMENT PROGRAM*
(Partially Funded by BILD)

REGION	kms Con./Recon.	Expenditures (\$000s)	kms Maintained	Expenditures (\$000s)
Northwestern	256.0	7,466.4	334.0	199.8
North Central	380.0	9,193.3	776.0	318.6
Northern	558.0	14,543.5	1,595.0	709.0
Northeastern	171.0	3,460.1	437.0	194.3
TOTAL	1,365.0	\$34,663.3	3,142.0	\$1,421.7

The FMA Program is funded in accordance with agreements between MNR and forest companies.

1985/86 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	MNR Roads Program	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	107.7	22.8	63.4	-	193.9
	25 Bridges	1 Bridge			26 Bridges
Expenditures (\$000s)	\$2,899.5	\$2,358.7	\$9,670.4	-	\$14,928.6
Road Main- tained (kms)	5,116.5	90.0	-	-	5,206.5
Expenditures (\$000s)	\$2,537.5	\$ 62.8	-	-	\$ 2,600.3
Winter Roads Maintained (km)	-	525.0	-	-	525.0
Expenditures (\$000s)	-	\$ 530.2	-	-	\$ 530.2

ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT

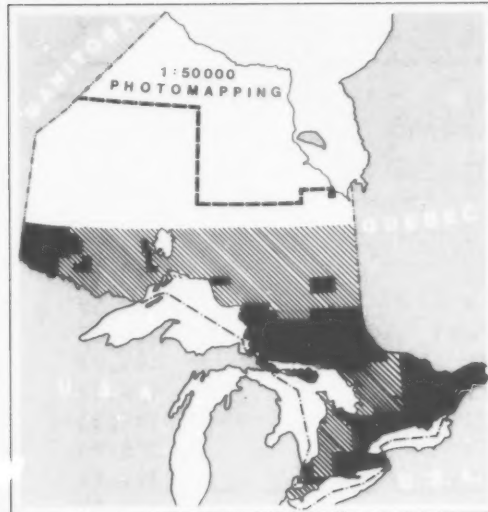
Company	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	78.9	23.3	1,365.0	1,467.2
Expenditures (\$000s)	\$722.0	\$ 325.1	\$34,663.3	\$35,710.4
Road Main- tained (kms)	-	-	3,142.0	3,142.0
Expenditures	-	-	\$1,421.7	\$1,421.7

Lands and Waters Group

SURVEYS AND MAPPING BRANCH

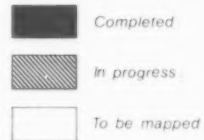
Room W-3440, Main Office Telephone (416) 965-6225

Branch Director.....	Dr. J. M. Zarzycki.....	W-3448...5-6225
Geographical Information Services		
A/General Manager.....	Z. Jiwani.....	W-3425...5-4538
Co-ordinator, Digital Mapping & GIS.....	G. R. Zillmer.....	W-3427...5-2779
GIS Analyst.....	C. Broughton.....	W-3423...3-2198
Surveying Services		
Surveyor General.....	S. B. Panting.....	W-3446...5-2714
Surveys Manager.....	D. E. Norris.....	W-3449...5-2714
Asst. Mgr. Technical Services..	J. A. MacIntosh.....	W-3447...5-2714
Asst. Mgr. Legal Descriptions & Research.....	R. F. Weatherbe.....	W-3442...5-2714
Legal Description & Research Officer.....	C. S. Kliaman.....	W-3442...5-2714
Senior Survey Plan Examiner....	R. A. Stocker.....	W-3303...5-2716
Survey Records Information.....	D. E. Jeanes.....	W-3424...5-1416
Geographic Names Manager.....	M. B. Smart.....	W-2601...5-6515
Geodetic Surveys, A/Manager....	K. M. Kelly.....	W-3427...5-3005
Control Survey Data Analyst....	A. L. Harrison.....	W-3427...5-3005
Control Survey Data Technician.	E. P. Marshall.....	W-3427...5-3005
Mapping Services, General Manager		
Basic Mapping Manager.....	C. T. Osborne.....	W-4620...5-4941
Cartographic Services.....	B. Jackson.....	W-4620...5-1208
Drafting Services Manager.....	F. W. Dawson.....	W-4620...5-4743
Chief Contract Monitor.....	D. W. Robeson.....	W-2540...5-1823
	R. Audas.....	W-2640...5-0293
Ontario Centre for Remote Sensing		
880 Bay Street, Toronto, Ont. M5S 1Z8		
Associate Director.....	V. Zsilinszky.....	5-8411
Chief Scientist.....	Dr. S. Pala.....	5-8411
Senior Scientist.....	A. Jano.....	5-8411
Staff Scientist.....	R. Mussakowski.....	5-8411
Staff Scientist.....	T. Ellis.....	5-8411
Research Officer, Engineering..	V. Singhroy.....	5-8411
Airborne Program Co-ordinator..	I. Ross.....	5-8411
Airborne Program Specialist....	E. Senese.....	5-8411
Photo Research Lab Supervisor..	D. Klimes.....	5-8411



MAPPING SERVICES ONTARIO BASIC MAPPING

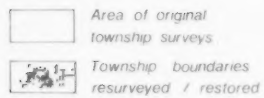
1:20 000 , 1:10 000 scales



1:2 000 scale

141 Municipalities completed
12 Municipalities in progress

SURVEYING SERVICES



10023 00 kms completed



SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km. Resurveyed
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
1983-84	307.50
1984-85	276.00
1985-86	251.60
Total	10,023.00

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1979-80	317
1980-81	323
1981-82	641
1982-83	791
1983-84	831
1984-85	501
1985-86	448

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585
1983-84	2,119
1984-85	1,618
1985-86	2,030

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
1983-84	11,000
1984-85	3,000
1985-86	3,000
Total	40,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville
1983-84	Lindsay & Conestoga
1985-86	Thunder Bay

Lands and Waters Group

OFFICE OF INDIAN RESOURCE POLICY

Room 6527, Whitney Block Telephone (416) 965-6045

Director.....	E. G. Wilson.....	W-6527.....6045
Secretary.....	S. W. Ko.....	W-6527.....6045
Indian Resource Policy Advisor...	J. F. Gosnell.....	W-6529.....5201
Clerk Steno.....	V. Zoras.....	W-6529.....5201
Senior Indian Land Claims		
Researcher.....	D. T. McNab.....	W-6526.....5201
Indian Land Claims Researcher....	L. C. Hansen.....	W-6530.....5201
Indian Land Claims Researcher....	G. C. Jones.....	W-6530.....5201
Indian Land Claims Researcher....	D. J. Duxtator.....	W-6530.....5201
Clerk Steno.....	P. Williams.....	W-6530.....5201

Lands and Waters Group

CONSERVATION AUTHORITIES AND
WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office Telephone (416) 965-6285

Branch Director.....	M. G. Lewis.....	W-5620.....6287
CONSERVATION AUTHORITIES SECTION		
Manager.....	R. D. Hunter.....	W-5620.....6285
Co-ordinator, Technical Systems..	G. S. Sardesai.....	W-5620.....6275
Administrative Assistant.....	Mrs. D. Green.....	W-5620.....6270
Planning Systems Co-ordinator....	T. E. Farrell.....	W-5620.....6286
Librarian.....	Ms A. Perrigo.....	W-5641.....4481
Supervisor, Program		
Implementation and Evaluation....	G. W. Price.....	W-5620.....6285
Head, Conservation and		
Recreation Land Mgmt. Program..	R. J. Dickie.....	W-5620.....1573
CA Transfer Payment		
Co-ordinator	Mrs. M. E. Willard.....	W-5620.....7694
Special Employment Co-ordinator	Mrs. S. E. Court.....	W-5641.....1799
TECHNICAL SERVICES SECTION		
Manager.....	R. B. Chang (acting).....	W-5620.....6295
Flood Damage Reduction Program		
Co-ordinator.....	Mrs. C. T. Kowalyk.....	W-5620.....6281
Supervisor, Streamflow		
Forecast Centre.....	P. N. Gryniowski.....	W-5636.....6292
Head, Hydrometeorological Unit	R. A. Fox.....	W-5636.....6293
Emergency Mgmt. Co-ordinator..	L. J. Balogh.....	W-5636.....6277
Senior Policy Advisor,		
Water Management.....	.....	W-5620.....6281
Supervisor, Models and		
Consultative Services.....	R. M. Odell (acting).....	W-5620.....1271
Head, Model Development.....	J. Y. Ding.....	W-5641.....1271
Models Specialist.....	.....	W-5641.....1271
Water Resource Engineer.....	D. L. Strelchuk.....	W-5620.....1271

GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT

in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1980	\$4,756,983	\$20,466,353	\$3,404,736	\$1,530,000	\$30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231
1984	7,098,874	26,852,944	3,751,372	-	37,703,190
1985	7,483,719	25,023,841	4,223,991	-	36,731,551
1986	7,824,046	24,695,257	4,380,850	-	36,900,153

Sources of Funding (1984):

Total Provincial Government Grants	43,816,765
Federal Government Grants	5,839,767
Total Municipal Levies	28,524,712
Authority Generated Revenues	17,383,996
TOTAL	95,565,240

GENERAL INFORMATION

Number of Conservation Authorities established in Ontario	38
Number of square kilometres within the jurisdiction of conservation Authorities	112,861
Municipalities participating in one or more Conservation Authorities	Regional 11 Local 497
Members appointed to Conservation Authorities	Elected 560 Non-elected 362
Staff Positions	Permanent 882 Casual 1,815 Special Employment 2,587

1984 RECREATIONAL PROGRAMS:

Gross Revenues from Recreation Programs	7,070,416
Operating Expenses re: Recreational Programs	9,657,546
Net Cost of Recreational Programs	2,587,130

PUBLIC RECREATIONAL USE OF CONSERVATION AREAS, 1984

Group Camping Nights	52,196
Family Camping Nights	1,199,327
Day Use	4,396,553

CONSERVATION SERVICES PROGRAM 1984

Number of landowners provided with direct technical assistance	2,362
Number of trees and shrubs planted	2,436,530

FLOOD CONTROL MEASURES IMPLEMENTED:

No. of metres of stream channel constructed	1984	4,880
	prior to 1984	197,790
No. of metres of watercourses dyked	1984	4,390
	prior to 1984	67,524

EROSION CONTROL MEASURES IMPLEMENTED

No. of metres of erosion control measures constructed	1984	13,477
	prior to 1984	75,124

FLOOD PLAIN MAPPING AND FILL LINE MAPPING COMPLETED

km of watercourses mapped for <u>both</u> flood plain and fill line delineations	1984	541
	prior to 1984	9,642
km of watercourses mapped for flood plain delineation <u>only</u>	1984	412
	prior to 1984	1,076
km of watercourses mapped for fill line delineation <u>only</u>	1984	504
	prior to 1984	7,466

CURRENT, FEE SIMPLE LAND OWNERSHIP BY
CONSERVATION AUTHORITIES TO 1984

Flood Plains	24,732 ha
Shorelines	2,967 ha
Wetlands	14,255 ha
Agreement Forests	38,181 ha
Non-agreement Forests	13,120 ha
Wildlife Areas	8,121 ha
Recreation Lands	19,904 ha
Other	7,132 ha

GRAND TOTAL	128,412 ha
-------------	------------

MUNICIPAL PLAN INPUT AND REVIEW 1984

No. of documents reviewed:	
Official Plans	1,346
Zoning Bylaws	6,018
Subdivisions	585
Minor Variances/Consents	11,095
Development Control	1,483
Property Clearances	11,235

FILL AND CONSTRUCTION REGULATION ENFORCEMENT 1984

No. of permits granted	2,438
No. of permits refused	103
No. of violation notices issued	194
No. of appeals to Ontario Mining and Lands Commissioner	15

AVIATION AND FIRE
MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800
Telex 067-77166 (Aviation), 067-77134 (Fire Management)

Director.....	J. F. Goodman.....	(705) 942-1800
Secretary.....	H. S. Paciepnik.....	1800
Co-ordinator, Management & Planning.....	G. E. Doan.....	1800
Communications Officer.....	R. A. Thomas.....	1800
Finance and Administration Spvr..	W. A. Sinclair.....	1800
Purchasing Officer.....	E. M. Esson.....	1800
Fire Management Section		
Assistant Director, Fire.....		1800
Provincial Fire Operations.....	J. G. Minor, Spvr.....	1800
Provincial Fire Centre Manager.	G. O. Koistinen.....	1800
Research & Development.....	P. C. Ward, Spvr.....	1800
Systems Co-ordinator.....	R. Cote.....	1800
Fire Management Education Co-ordinator.....	R. B. Little.....	1800
Aviation Section		
Assistant Director, Aviation...	R. J. Kincaid.....	1800
Chief Pilot.....	A. L. Stewart.....	1800
Maintenance Superintendent.....	G. Willoughby.....	1800
Assistant Supt. Maintenance Airframe Section.....	G. Larocque.....	1800
Engine Section.....	P. F. Holder.....	1800
Quality Control Inspector.....	J. S. Denley.....	1800
Communications Section		
Communications Supervisor.....	H. Kling.....	1800
Avionics Co-ordinator.....	P. Quinn.....	1800
Ground Communications Supvr.....	J. Tidman.....	1800
Executive Flight Operations, Malton		
Flight Operations Manager.....	W. C. Clarke.....	(416) 678-1173
Assistant Manager, Flight Operations.....	H. MacMillan.....	(416) 678-1173
Regional Pilot.....	A. H. Bieck.....	(416) 678-1173
China Project		
Canadian Project Director.....	M. F. Rush.....	(705) 942-1800

FOREST FIRE RECORD

Areas in hectares

Year	Damage \$	Private Property Damage \$	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1917	-	-	-	-	155,466	1,110	140
1918	-	-	-	-	12,210	965	12
1919	-	-	-	-	373,186	1,780	210
1920	-	-	-	-	145,222	1,287	113
1921	-	-	-	-	303,326	1,269	239
1922	-	-	-	-	140,099	1,021	151
1923	-	-	-	-	857,995	1,343	639
1924	-	-	-	-	55,091	851	69
1925	-	-	-	-	76,705	1,149	67
1926	-	-	26,664	9,100	35,764	1,110	32
1927	-	-	9,216	5,248	14,464	924	16
1928	-	-	39,026	1,598	40,624	536	76
1929	-	-	246,353	6,836	253,189	1,550	163
1930	-	-	144,688	143,371	288,059	1,402	206
1931	-	-	42,843	13,120	55,963	1,851	30
1932	-	-	253,558	21,232	274,790	2,073	133
1933	-	-	131,537	10,086	141,623	1,919	74
1934	-	-	64,891	15,493	80,384	1,568	51
1935	-	-	74,090	27,309	101,439	1,309	77
1936	-	-	466,957	44,741	511,698	2,264	226
1937	-	-	81,701	9,251	90,952	1,453	63
1938	-	-	38,918	17,028	55,946	1,292	43
1939	-	-	10,558	1,218	11,776	961	12
1940	-	-	40,869	8,346	49,215	1,014	49
1941	-	-	109,991	159,751	269,742	1,265	213
1942	-	-	31,448	14,571	46,019	1,224	38
1943	-	-	13,543	7,831	21,374	624	34
1944	-	-	29,635	38,713	68,348	1,137	60
1945	-	-	7,283	12,348	19,631	966	20
1946	-	-	18,072	12,995	31,877	1,739	18
1947	-	-	15,416	18,591	34,007	1,393	24
1948	-	-	345,917	65,806	411,723	2,036	202
1949	-	-	16,427	7,880	24,307	1,834	13
1950	55,148	103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	-	-	23,527	1,239	18
1971	462,064	75,875	-	-	14,649	1,790	8
1972	1,081,876	47,446	-	-	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3
1983	15,230,649	352,210	442,156	1,499	443,655	2,244	198
1984	787,487	652,985	118,851	1,567	120,418	1,240	97
1985	69,552	319,329	682	325	1,007	887	1

1985 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	16	1.7	.1
Fort Frances	12	30.7	2.6
Ignace	11	2.8	.3
Kenora	70	21.1	.3
Red Lake	39	29.4	.8
Sioux Lookout	19	30.9	1.6
Atikokan	17	2.8	.2
Geraldton	19	10.0	.5
Nipigon	17	49.5	2.9
Terrace Bay	12	14.0	1.2
Thunder Bay	39	45.0	1.2
Chapleau	26	11.1	.4
Cochrane	18	14.7	.8
Gogama	10	26.5	2.7
Hearst	10	13.3	1.3
Kapuskasing	7	21.5	3.1
Kirkland Lake	27	139.7	5.2
Moosonee	3	40.7	13.6
Timmins	12	57.0	4.8
Blind River	14	4.9	.4
Espanola	27	12.4	.5
North Bay	31	14.6	.5
Sault Ste. Marie	5	.6	.1
Sudbury	97	82.8	.9
Temagami	20	17.3	.9
Wawa	18	26.8	1.5
Algonquin Park	35	46.7	1.3
Bancroft	17	6.8	.4
Bracebridge	23	15.2	.7
Minden	19	5.7	.3
Parry Sound	31	8.5	.3
Pembroke	48	30.6	.6
Carleton Place	16	6.6	.4
Tweed	77	137.7	1.8
Huron	4	.9	.2
Lindsay	12	9.6	.8
Owen Sound	9	16.5	1.8
TOTAL	887	1,006.6	1.1

1985 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
March	10	11.2	1.1
April	112	198.0	1.8
May	225	333.2	1.5
June	130	139.3	1.1
July	231	151.2	.7
August	114	57.9	.5
September	49	18.9	.4
October	8	45.0	5.6
November	7	51.8	7.4
December	1	.1	.1
TOTAL	887	1,006.6	1.1

DETECTION OF FOREST FIRES

Agencies	1981	1982	1983	1984	1985
Ministry Aircraft	394	230	595	169	118
Total Organized Detection	394	230	595	169	118
Public	1,062	1,038	1,277	948	702
Other Aircraft	200	128	372	123	67
Total Random Detection	1,262	1,166	1,649	1,071	769
Total Fires	1,656	1,396	2,244	1,240	887
Percentage Organized Detection	24	17	27	14	13

SIZES OF FOREST FIRES

Area Burned Over	1985
Up to .2 hectares	467
.2 to 4.0 hectares	382
4.0 to 40 hectares	35
40 to 200 hectares	3
Over 200 hectares	-
Total Fires	887

PROSECUTIONS

Actions re: Forest Fires	1981	1982	1983	1984	1985
Prosecutions	46	72	89	78	56
Convictions	40	68	82	73	54

CAUSES OF FOREST FIRES - I

General Causes	1981	1982	1983	1984	1985
Recreation	493	517	494	276	229
Resident	150	224	181	221	165
Incendiary	59	39	48	69	27
Railways	153	160	161	94	122
Industry (Forest)	36	11	36	21	31
Industry (Other)	38	22	25	45	29
Miscellaneous (Known)	209	156	178	199	93
Unknown	33	30	31	29	22
Lightning	485	237	1,090	286	169
Total Fires	1,656	1,396	2,244	1,240	887

CAUSES OF FOREST FIRES - II

Source of Ignition	1981	1982	1983	1984	1985
Smoking Materials	285	323	250	136	121
Camp Fires	251	243	274	157	124
Matches	109	105	94	98	57
Fireworks	2	1	2	-	-
Explosives	2	-	1	-	-
Fusee	10	9	3	5	6
Prescribed Burning	3	3	2	1	-
Dump Ashes, Coals	6	9	7	6	13
Burning Grass	46	73	38	44	34
Burning Brush	36	37	52	55	56
Burning Rubbish	17	44	31	35	24
Burning Garbage Dump	15	23	34	33	18
Burning Bulldozed Pile	4	-	3	3	3
Burning Sawdust Pile	2	2	-	3	2
Burning Ties	16	19	9	12	9
Burning Right-of-Way	10	20	9	8	14
Locomotive, Diesel	38	27	35	14	7
Locomotive, Steam	-	-	-	-	-
Brake Shoe	47	44	61	30	37
Overheated Journal Box	2	-	2	-	4
Rail Grinding	-	-	13	7	22
Power Saw	7	2	3	4	3
Mechanical Equip. (Other)	49	34	30	12	23
Mechanical Equipment (Scarification)	-	-	9	6	3
Power Line (Short)	21	15	32	114	28
Sparks from Chimney	-	2	1	2	1
Sparks from Burner	1	1	1	1	-
Structural Fires	11	11	16	8	12
Miscellaneous (Known)	54	23	26	32	20
Unknown	129	91	116	128	77
Lightning	483	235	1,090	286	169
Total Fires	1,656	1,396	2,244	1,240	887

CAUSES OF FOREST FIRES - III

Responsible Groups	1981	1982	1983	1984	1985
RECREATION					
Fishermen	184	158	161	110	82
Hunters	25	16	13	15	17
Canoeists	23	45	37	22	19
Campers	48	61	69	28	25
Picnickers	10	14	20	1	6
Berry Pickers	105	141	91	38	20
TRAVELLERS					
Car Passengers	96	76	61	35	36
Hikers	28	25	28	10	15
Train Passengers	1	-	-	1	1
Guided Parties	2	2	-	-	-
RESIDENTS					
Farmers	18	26	26	17	19
*Rural Residents	104	152	137	173	116
Urban Residents	8	12	13	5	8
Private Cottagers	32	34	44	42	27
Resort Owners	5	2	-	5	3
VOCATION					
Trappers	1	-	-	1	1
Prospectors	2	1	2	4	1
Timber Cruisers (not MNR)	-	-	-	-	2
Survey Parties	-	-	-	-	-
Military	1	1	-	-	-
EMPLOYEE OF					
Woods Industry	31	12	33	16	29
Mining	9	1	4	1	3
Pipeline	-	-	-	-	1
Hydro	3	2	4	5	6
Telephone	1	-	1	-	-
Highway or Road	1	1	1	1	1
R. R. Section Crew	22	39	25	16	25
R. R. Train Crew	24	24	21	17	33
R. R. Work Crew	102	94	110	57	61
Other Industry	17	12	9	11	9
Natural Resources	34	17	6	10	4
Other Prov. Government	1	-	1	-	-
Federal Government	-	-	1	-	-
Municipality	3	6	5	2	2
MISCELLANEOUS					
Children	77	68	76	82	42
Youth Camps	3	-	6	3	2
Miscellaneous (Known)	40	24	66	134	41
Unknown	112	94	83	92	61
Total Human-Caused Fires					
	1,173	1,160	1,154	954	718
Percentage of All Fires					
	71	83	51	77	81

*Note: Indians (on Reserves) has been deleted under Residents. These fires for previous years 1981-84 should now be shown under Rural Residents.

1985 PRESCRIBED BURNING SILVICULTURE, HAZARD REDUCTION, MISC.

<u>District</u>	<u>Burns</u>	<u>Hectares</u>
Fort Frances	2	589.0
Geraldton	2	1,363.0
Nipigon	1	240.0
Terrace Bay	1	140.0
Chapleau	4	1,480.0
Cochrane	2	864.0
Gogama	1	360.0
Hearst	4	2,283.8
Kapukasing	2	321.0
Kirkland Lake	1	155.0
Timmins	2	540.0
Blind River	5	862.0
Espanola	1	37.5
North Bay	1	17.0
Sault Ste. Marie	3	235.0
Sudbury	2	360.0
Temagami	1	275.0
Bancroft	1	30.0
Bracebridge	1	24.4
Tweed	2	343.0
Chatham	1	68.0
Huron	1	26.0
	41	10,613.7

FEDERAL RESEARCH BURNS

<u>District</u>	<u>No. of Burns</u>	<u>No. of Plots</u>	<u>Hectares</u>
Timmins	1	5	20.1
Blind River	1	4	.8
	2	9	20.9

AIR SERVICE SUMMARY - I

Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
1984	1,364	1,725	2,328	423	1,093	625
1985	1,640	1,830	2,960	478	1,309	590
1986	976	2,065	3,827	392	1,601	254
Total 1924-86	246,283	46,213	121,226	5,168	21,615	15,755

Year	Research	Inter- Ministry	Photo	Mercy Flights	Misc.	Total
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,188
1984	450	3,078	572	22	3,111	14,791
1985	474	3,931	680	29	454	14,375
1986	338	1,763	493	13	3,759	15,481
Total 1924-86	11,601	42,342	9,287	1,958	182,941	704,389

AIR SERVICE SUMMARY - II

in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1981	10	25,480	801.06	883
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280
1984	16	29,175	1,856.73	1,893
1985	13	31,023	1,988.50	2,192
1986	6	18,534	4,609.30	5,080

ADMINISTRATION DIVISION

Room W-6345, Main Office Telephone (416) 965-7106

Assistant Deputy Minister.....	R. M. Monzon.....	W-6345.....7106
Administrative Assistant.....	Mrs. W. Paquette.....	W-6344...3-2005
Secretary.....	Mrs. E. Lynch.....	W-6345.....7106
Finance and Administration Group		
Executive Co-ordinator.....	D. J. Johnstone.....	W-6347.....6148
Affirmative Action		
Program Co-ordinator.....	B. Robson.....	W-4611.....5663
Communications Services Branch		
Director/Acting.....	V. Chavossy.....	W-5352.....3315
Personnel Services Branch		
Director.....	M. Barker.....	W-4530.....3825
Legal Services Branch		
Director.....	B. G. Jones (acting)....	W-6420.....2748
Office of Management, Planning and Analysis		
Director.....	P. Bryant.....	W-6350.....4143
Manpower Planning		
Director.....	H. Farrant.....	W-6312...3-3754
MNR Update.....	J. Simpson.....	W-3312...3-1206

Administration Division

COMMUNICATIONS SERVICES
BRANCH

Room W-5340, Main Office Telephone (416) 965-2756

Branch Director.....	V. Chavossy (acting)....	W-5352...5-3315
Secretary.....	Miss M. Goh.....	W-5340...5-3315
Communications Policy Co-ordinator	P. Andrews.....	W-5340...5-2756
Communications Planning		
Co-ordinator.....	G. Merchant (acting)....	W-5441...3-2958
Northern Ontario Communications		
Co-ordinator.....	K. Robertson.....	W-5340...5-2756
Information Services Section.....	M Welch, Mgr (acting)...	W-5340...5-2756
French Language Policy.....	Ms. F. Blais.....	W-5340...3-2026
Writing Co-ordinator.....	Ms. S. McGuire (acting).	W-5340...3-2756
French Language Writer.....	D. Legault.....	W-5340...3-0163
Landmarks Editor.....	J. Heer (acting).....	W-5340...5-2758
Aski Editor.....	N. Rahtz (acting).....	W-5340...5-2758
Educational Programs		
Co-ordinator.....	S. Gesner.....	W-5340...5-2781
Media Liaison Supervisor.....	C. Ross.....	W-5340...5-2756
Public Information Centre		
Supervisor.....	Mary-Ellen Stoll.....	W-1640...5-2445
Parks Information.....	.....	W-1640...5-3081
Fisheries Information.....	.....	W-1640...5-7883
Wildlife Information.....	.....	W-1640...5-4251
Forestry/Lands Information.....	.....	W-1640...5-9751
Maps Information.....	.....	W-1640...5-6511
Aerial Photos.....	.....	W-1640...5-1123
Minerals Information.....	.....	W-1640...5-1348
Creative Services Section.....	J. Grayston Mgr (acting)	W-5440...5-2780
Exhibits & Displays Unit.....	J. Grayston, Spvr.....	W-5440...5-2780
Publications Services Unit.....	Ms. C. Haines	
	Spvr., (acting).....	W-5440...5-2780
Publications Editor.....	Ms. M. Reid.....	W-5440...5-2780
Graphic Designer.....	A. Gokhan.....	W-5440...5-2780
Audio Visual Unit.....	A. Campeau, Spvr.(acting)	W-5440...3-1325
Photographer.....	Miss H. Bickle.....	W-5440...3-1325
Film & Audio-visual Consultant.	L. Walton.....	W-5440...3-1325
Advertising & Marketing Officer..	C. Gullason.....	W-5441...3-2956

Administration Division

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office Telephone (416) 965-3825

Branch Director.....	M. P. Barker.....	W-4530...3825
M.O.S.S. Unit		
Manager.....	E. Polonoski.....	W-4601...7240
Corporate Personnel Services		
Manager.....	E. Cardwell.....	W-4531.3-2692
Personnel Policy & Staff Relations		
Manager.....	R. Gordon.....	W-4528...6091
Occupational Health & Safety Section		
Manager.....	A. B. Shipston.....	W-5645...2735
Human Resources Planning &		
Development Section Manager....	R. B. Brayshaw.....	W-4422...1468

STAFF SUMMARY

Total MNR Staff as of March 31, 1986

	Regular	Probationary	Unclassified	Total
Main Office	926	80	402	1,408
Field Office	2,878	102	1,193	4,173
TOTAL	3,804	182	1,595	5,581

Total Number of Positions	4,241
Total Number of Staff	3,986
Total Number of Vacancies	255
New Employees Hired 1985/86	151

Management Staff	1,007
Executive Staff	39
Bargaining Unit Staff	2,888
Position Excluded Staff	52

Total	3,986
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Deceased	7
Transferred	23
Released	4
Resigned	67
Dismissed	1
Retired	80

Total	182
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STAFF SUMMARY

at March 31, 1985

	1981	1982	1983	1984	1985	1986
Regular Staff	4,060	4,093	4,163	3,948	3,819	3,804
Probationary Staff	322	203	141	49	140	182
Unclassified Staff	1,636	1,565	1,380	1,601	1,646	1,595
TOTAL	6,018	5,867	5,684	5,598	5,605	5,581
Main Office Staff	880	863	917	887	992	1,022
Field Office Staff	3,502	3,439	3,387	3,110	2,967	2,964
New Employees	306	140	160	57	101	151
Deceased	10	9	12	11	8	7
Superannuated	99	45	78	156	59	80
Transferred	1	36	17	18	16	23
Resigned	165	81	73	85	44	67
Dismissed	3	1	1	2	2	1
Released	5	0	1	1	3	4
Miscellaneous	29	0	1	0	0	0
Total Separations	312	172	183	273	132	182
Junior Rangers	1,736	1,736	1,636	1,716	1,716	1,716

MANAGEMENT GROUPS

Administrative	233
Clerical	7
Operational	13
Professional	272
Technical	482

Total	1,007
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Executive Compensation Plan	39
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Position Excluded	52
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BARGAINING UNIT CATEGORIES

Administrative Services	120
Scientific & Professional	418
Technical Services	1,252
Office Services	401
Clerical Services	433
Maintenance Services	196
General Operational Services	68

Total	2,888
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Administration Division

LEGAL SERVICES BRANCH

Room W-6420, Main Office Telephone (416) 965-2748

Director.....	B. G. Jones.....	W-6420.....2748
Senior Solicitor.....	L. A. Low.....	W-6420.....2748
Solicitors.....	M. M. Crystal.....	W-6420.....2748
	M. P. Koskie.....	W-6420.....2748
	C. E. Mansfield.....	W-6420.....2748
	D. A. Pigeon Bernotas...	W-6420.....2748
	R. F. Robinson.....	W-6420.....2748
	A. R. E. Ryan.....	W-6420.....2748
	J. Skala.....	W-6420.....2748
	M. N. K. Toor.....	W-6420.....2748
	T. N. Trow.....	W-6420.....2748

Legal matters dealt with by the Branch include legal opinions, drafting statutes, regulations, orders in council, litigation and all other matters of a legal nature affecting the Ministry.

LEGISLATION

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act or written consent of the local municipality.

BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies. The Act prohibits construction of dams without Ministry approval. The Minister is given discretionary powers relating to the repair, reconstruction and removal of dams, maintenance of water levels, and regulation of use of waters or works.

MINING ACT sections 112, 113, 114, 115 and 162 only. The remainder of the Mining Act is now administered by the Ministry of Northern Development and Mines.

NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

ONTARIO HARBOURS AGREEMENT ACT, 1962-63, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of the Association.

SURVEYS ACT defines the system of surveys and the rules for surveys. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Divisional Court.

FOREST RESOURCES GROUP

ARBOREAL EMBLEM ACT, 1984 adopts the Eastern White Pine as the arboreal emblem of the Province of Ontario.

CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber, a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order in Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

MINERAL RESOURCES GROUP

PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

PETROLEUM RESOURCES ACT sets out licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

FISHERIES ACT (CANADA) Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under the Game and Fish Act.

FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

FISH INSPECTION ACT is complementary to the Federal Act.

FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86 degrees except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council. Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under the Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under the Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

Vehicle admission charge is \$7.50 per day or \$30.00 for the season. A bus permit charge is \$12.00 per day. Senior Citizens are allowed free admission during the week except for camping on weekends, when half rates apply. Campsite charges are \$7.00 per day, or \$8.50 per day where shower facilities are available, and \$10.00 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.25 per day. On unorganized campsites in park interiors the charge is \$2.50 per person.

The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

AVIATION AND FIRE MANAGEMENT CENTRE

FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires lit for cooking or warmth or to (b) ignite fireworks in or within 300 m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Government of the Province of Ontario, represented by the Minister of Lands and Forests, the Government of Canada and the Government of the Province of Manitoba regarding the construction of a dam at the outlet of Lac Seul.

LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Chairman of the Lake of the Woods Control Board and Acting Supervisor, Models and Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with D. L. Strelchuk as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the waters of the Winnipeg and English Rivers and, for the purpose, to regulate the flow of:

- (a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
- (b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.
- (c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and
- (d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

Administration Division

FINANCE AND
ADMINISTRATION GROUP

Room W-6347, Main Office Telephone (416) 965-6148

Executive Co-ordinator.....	D. J. Johnstone.....	W-6346.....6148
Secretary.....	Heather Daley.....	W-6346.....6147
Co-ordinator, Systems		
Implementation.....	J. A. Queen.....	W-6341.....3322
Project Officer.....	K. Vogan.....	W-6341.....3322

Administration Division

SYSTEMS SERVICES BRANCH

Main Office, Room W-6540 (416) 965-5671

Director.....	J. H. Findeis.....	W-6547.....2750
Secretary.....	I. Hardy.....	W-6540.....5671

Systems Co-ordination Section

Manager.....	C. K. Moulson.....	W-6546.....5674
Sr. Systems Co-ordinator.....	J. Sanford.....	W-5610...3-1450
Management Consultant.....	L. Goecke.....	W-5611...3-1316
Program Group Systems		
Co-ordinators.....	J. Boufford.....	W-5610...3-1316
	S. Mitchell.....	W-5610...3-1316
	J. Paige.....	W-5610...3-1316
	J. Wei.....	W-5610...3-1316
Office Automation Specialist...	C. Jones.....	W-5611...5-8508

Information Resources Development Section

Manager.....	I Talvila.....	W-6548...3-0361
Supervisor, Data Co-ordination	L. Bailey.....	W-6545...3-1327
Major Systems, Sr. Systems		
Officer.....	L. Davidson.....	W-6544...5-3790
Advanced Technology Systems		
Senior Systems Officer.....	R. Orawski.....	W-6502...3-2391

Operations and Support Section

Manager.....	.....	.....
Technical Support Supervisor	M. Zillman.....	W-6543...3-2392
Information Centre Analyst	N. Panksep.....	W-6540...3-1324
Operations, Supervisor.....	D. Trentadue.....	W-5426...5-3794
Senior Operations Analyst....	D. Thompson.....	W-5426...5-0116
Technical Operations Officer.	R. Khan.....	W-5426...5-0116
Security Analyst.....	A. Richardson.....	W-5426...5-0938

Administration Division

INTERNAL AUDIT SERVICES BRANCH

Room W-4633, Main Office Telephone (416) 965-4087

Branch Director..... A. A. Ward..... W-4637.....4087

Assistant Director and Senior

EDP Auditor..... D. L. Lay..... W-4634.....4087

Northern Audit Section

Box 5000

Thunder Bay, P7C 5G6

Audit Manager..... S. A. Soldan..... (807) 475-1211
(IC 844)

Sault Ste.Marie sub-office

875 Queen Street East

Sault Ste.Marie, P6A 2B3

Senior Auditor..... W. C. Johnstone..... (705) 949-1231
(IC 842)

Southern Audit Section

c/o District Office

Maple, LOJ 1E0

Audit Manager..... D. A. Dooling..... (416) 832-2761
Ext.281

Administration Division

FINANCIAL RESOURCES BRANCH

Room W-4325, Main Office, Telephone (416) 965-2761

Director.....	Amber J. Armitage.....	W-4324...5-2761
Chief Accountant.....	Ian Nott.....	W-4326...5-2761
Financial Reporting & Claims.....	Vince Ferrara.....	W-4320...5-1895
Financial Methods.....	George Jarzabek.....	W-4328...5-1218
Financial Policy Development.....	Ed Young.....	W-4501...5-1033
Accounting Operations.....	Paul Comeau.....	W-4340...5-9774
Accounting Section.....	Claudette Obelnycki.....	W-4441...5-2251
Accounts Payable.....	Terry Headley.....	W-4303...5-2764
Employee Services.....	Cathy MacFadyen.....	W-4341...5-2766
Licence Issuing.....	Tom Tunnicliff.....	W-4342...5-2814
Revenue.....	Shirley Perry.....	W-4443...5-2770
Program Planning & Budget.....	David H. Cope.....	W-4420...5-7086
Budget Co-ordinator.....	Jim MacDonald.....	W-4420...5-9052
Senior Group Advisor.....	John Botterill.....	W-4420...5-7086
Group Advisors.....	Paul King.....	W-4420...5-9052
	Dawn Sword.....	W-4420...5-7086
Division Advisor.....	Alan Teder (acting).....	W-4420...5-7086
Financial Planning & Program		
Evaluation.....	Philip Wormwell.....	W-4427...5-7182
Senior Program Officers.....	Dave Boggs.....	W-4427...5-7182
	Anne Harris.....	W-4427...5-7182
	Stan Mathewson.....	W-4427...5-7182

Administration Division
Finance and Administration Group

REVENUE AND EXPENDITURES

in years ending March 31

Year	Budgetary Revenue \$	Budgetary Expenditure \$
1982	160,546,904	363,253,018
1983	135,735,095	374,348,745
1984	149,669,629	407,490,465
1985	238,765,999	437,550,337
1986	219,345,460	443,945,965

LANDS REVENUE

in years ending March 31

Year	Water Power \$	Crown Land Sales \$	Crown Land Rentals \$	Park Rentals & Fees \$	Pits and Quarries Licences \$	Land Use Permits \$
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492
1983	23,613,132	1,690,312	994,362	-	162,750	647,007
1984	25,593,045	1,719,761	959,100	-	165,015	712,854
1985	67,389,828	1,499,961	939,607	-	158,225	873,559
1986	86,427,338	1,177,710	884,730	-	171,846	720,514

Year	Assignments & Extension Fees \$	Cons. Authorities Federal Agreements \$	Return of Grants \$	Recovery Prior Years Land Acquisition \$	Misc. \$	Total \$
1982	16,300	511,589	469,201	103,966	87,549	25,827,773
1983	20,453	1,103,543	148,277	2,791	115,146	28,497,773
1984	22,575	137,594	172,653	38,597	386,148	29,907,342
1985	22,600	698,991	165,550	62	337,812	72,086,195
1986	24,350	356,783	41,927	96	695,566	90,500,860

TIMBER REVENUE

in years ending March 31

Year	Stumpage Charges \$	Timber Area Charges \$	Nursery Tree Sales \$	Agreement Forest \$	Federal Agreement \$	Misc. \$	Total \$
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719
1983	39,137,899	3,435,840	943,801	539,326	-	64,177	44,121,043
1984	46,754,081	4,625,266	606,385	586,724	5,763	67,840	52,646,059
1985	55,473,234	4,375,434	659,927	410,222	145,372	73,940	61,138,129
1986	62,600,005	6,579,249	564,762	436,978	18,427,090	-	88,608,084

MINING REVENUE

in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties
1982	319,952	537,731	3,191	582,818	2,250,102
1983	412,918	528,050	1,375	1,695,196	6,101,775
1984	569,477	661,066	3,003	732,129	4,660,987
1985	197,787	781,015	-	1,402,097	6,768,365
1986	948,411	-	-	747,653	6,527,604

Year	Taxes	Forfeit- ures	Labor- atory Fees	Rec. of Prior years Expenditure	Federal Agree- ment	Total
1982	55,411,740	2,840	153,161	-	-	59,261,535
1983	26,178,380	1,980	163,410	-	1,187,031	36,270,115
1984	32,544,776	2,700	178,985	-	1,479,939	40,833,062
1985	65,093,544	1,640	90,285	-	2,327,747	76,662,480
1986	474,978	-	91,646	-	1,005,251	9,795,543

PROVINCIAL PARKS REVENUE

in years ending March 31

Year	Permits \$	Campsite Permits \$	Concessions Rental \$	St. Lawrence Lic. & Permits \$
1982	1,215,227	5,519,852	356,984	1,933,584
1983	1,195,392	6,555,071	402,132	-
1984	1,392,446	6,620,918	387,401	-
1985	1,154,514	6,749,029	347,185	-
1986	1,169,565	6,593,034	281,098	-

Year	Federal Agreement \$	St. Clair Pkwy. Commission \$	Misc. \$	Total \$
1982	1,572,055	18,000	188,964	10,804,666
1983	190,089	1,500	162,470	8,506,654
1984	14,879	-	155,269	8,570,913
1985	-	-	134,860	8,385,588
1986	-	-	134,964	8,178,661

FISH AND WILDLIFE REVENUE

in years ending March 31

Year	Non-Res. Angling \$	Other Fishing \$	Commercial Fishing \$	Non-Res. Hunting \$
1982	7,610,191	156,957	117,419	1,490,490
1983	7,466,134	169,829	148,254	1,382,798
1984	7,256,322	172,716	65,009	1,212,760
1985	9,197,224	185,642	179,953	1,262,753
1986	9,762,572	83,154	153,834	1,557,076

FISH AND WILDLIFE REVENUE

Year	Resident Bear \$	Resident Deer \$	Resident Moose \$	Resident Groundhog \$	Res. (Gun) Hunting \$
1982	122,105	1,296,196	1,375,086	83,677	1,584,495
1983	132,636	1,362,761	1,719,562	78,807	1,580,569
1984	147,866	1,507,761	1,404,361	2,782	1,490,967
1985	131,238	1,641,430	1,768,078	-	1,513,349
1986	136,046	1,880,319	1,893,418	-	1,607,278

Year	Dog \$	Trappers \$	Fur Dealers \$	Hunter Exam Fee \$	Prov. Park Hunting \$
1982	75,957	65,387	8,950	85,722	53,400
1983	73,258	62,923	9,675	86,178	67,264
1984	72,939	57,252	8,925	59,967	64,712
1985	75,278	56,259	9,150	63,342	50,160
1986	81,221	54,054	9,476	67,719	289,567

Year	Misc. Fees & Licences \$	Royalty Game \$	Agreements		Total \$
			Outside Agencies \$	Federal \$	
1982	140,728	1,159,433	123,947	361,447	15,911,587
1983	229,813	729,477	165,750	80,254	15,545,942
1984	194,324	669,126	120,829	431,243	14,939,861
1985	404,620	639,480	90,584	291,905	17,560,445
1986	28,437	740,775	47,755	267,086	18,659,787

OTHER CASH RECEIPTS

in years ending March 31

Year	Sale of Maps, Publications etc. \$	Fire Costs Recovered \$	House Rentals \$	Sale of Buildings \$	Sale of Van and Equip. \$
1982	2,300,366	670,538	450,197	5,112	479,650
1983	686,651	306,055	411,266	30,012	393,846
1984	634,013	160,740	402,108	6,946	490,149
1985	761,511	114,668	367,696	13,355	505,729
1986	681,551	331,611	427,710	9,849	422,766

Year	Con- fiscated Articles \$	Frost Centre \$	Non-Recurring Items and Misc. \$	Board & Lodging \$	Total \$
1982	46,149	340,651	379,107	175,854	4,847,624
1983	59,412	401,061	301,008	204,257	2,793,568
1984	42,695	457,832	403,170	174,739	2,772,392
1985	59,176	497,619	465,681	147,727	2,933,162
1986	75,536	519,889	1,058,329	138,284	3,602,525

Administration Division

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office Telephone (416) 965-2711

Branch Director.....	T. Pierro (acting).....	W-5528.....2711
Branch Administration		
Co-ordinator.....	Ms. M. Clement.....	W-5520.....2711
Management Analysts.....	G. Kettel.....	W-5520.....4600
	Ms S. Fasken.....	W-5520.....4600
Operations Analysis Section.....		
Fleet & Insurance.....	R.E. Armstrong, Chief...	W-5526.....3317
Co-ordinator, Supply Mgmt.	L. Krol.....	W-5504.....1255
Unit.....	Ms. L. Wright.....	W-5520.....4600
Purchasing Specialist.....	W. Howson.....	W-5520.....4600
Supply Mgmt Projects Officer.	Ms B. Martin.....	W-5520.....4600
Supply Mgmt Specialists.....	S. Griffin.....	W-5520.....4600
	N. Banavage.....	W-5520.....4600
Co-ordinator, Contracting		
Unit.....	P. Mooradian.....	W-5520.....4600
Contracts Administrator.....	B. McKay.....	W-5520.....4600
Services Section.....		
Purchasing Services Unit.....	H. L. Bembridge, A/Chief	W-5527.....4600
Facilities Dev't Serv. Unit.	Ms. M. Marcel, Mgr.....	W-5533.....1601
Facilities Dev't Officer....	P. Coghill, Mgr.....	W-5423.....4645
Accommodation Services.....	D. Plamondon.....	W-5423.....4645
Records Info. Mgmt Services	S. Fenton.....	W-5423.....4645
Unit.....	Ms. L. Fischer.....	W-5422.....3822
Support Services Unit.....	Ms. C. Blancher A/Manager	W-5302.....5134
Main Office Vehicle Pool.....	Ms. June Mills.....	W-5302.....9988
Main Office Assets Control...	.....	W-5302.....5134
Copy Centre Services.....	.....	W-5502.....6790
Mail Services.....	.....	W-5310.....2778
Electronic Mail & Telecopier	.....	.....
Services.....	.....	W-5312.....2784
Central Supply Warehouse.....	D. Sibley, Spvr.....	1286
(51 Esander Drive, Toronto)		
Conferences, Hospitality		
Services.....	M. D. Cantelon.....	W-5301.....6166

VEHICLES AND EQUIPMENT IN SERVICE

in year ending March 31, 1986

Type	Number in Operation
Subcompact Cars and Station Wagons	9
Compact Cars and Station Wagons	169
Full-size Cars and Station Wagons	59
Standard and Extended Pickups	892
Four-wheel Drive Vehicles	297
Crew Cabs	91
Passenger Vans and Personnel Carriers	164
Buses	5
Cab and Chassis - 10,000 GVW	83
Cab and Chassis - over 10,000 GVW	123
Cab and Chassis - specialized bodies	25
TOTAL	1,917
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	550
Tractors	355

NORTHWESTERN REGION

Box 5160, 810 Robertson St., Kenora Ont. P9N 3X9
Phone (807) 468-3111

D. R. Johnston.....	Regional Director
W. J. Straight.....	Deputy Reg. Director
D. R. Fortner.....	Deputy Reg. Director
G. N. McGeachy.....	Admin. Co-ordinator
D. O. Wray.....	Forester
G. K. Winterton.....	Biologist
G. N. Warner.....	Safety Officer
R. H. Hanlan.....	Planning Co-ordinator
D. M. C. Lindstrom.....	Operations & Services Co-ordinator
K. J. Chambers.....	Resource Development Co-ordinator
W. Kostantin.....	Personnel Officer

Fire Management Centre

T. Campbell, Program Manager - Fire Management
Box 850, Dryden, Ontario P8N 2Z5
Phone (807) 937-4402

Dryden Tree Nursery

M. McIntyre, Nursery Supt.
Box 90, Wabigoon, Ontario P0V 2W0
Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9.
Phone (807) 468-9841

G. G. Pyzer.....	District Manager
R. G. McCue.....	Administration
D. Philippi.....	Field Services
W. H. Mills.....	Forests
T. J. Lunny.....	Land Management
R. W. Paterick.....	Parks
J. T. Taylor.....	Fish and Wildlife

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4
Phone (807) 274-5337

J. K. Cleaveley.....	District Manager
T. M. McWhirter.....	Administration
S. E. Cameron.....	Parks & Operations
W. R. Darby.....	Fish & Wildlife
A. P. Matiece.....	Forests
C. E. Horne.....	Land Management

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. POV 2T0
Phone (807) 737-1140

J. Young.....	District Manager
W. L. Bertrand.....	Administration
H. D. Morrison.....	Operations/Parks
A. A. Martin.....	Fish & Wildlife
B. A. Ferguson.....	Forests
F. E. Brown.....	Land Management

DRYDEN DISTRICT

Box 730, Ontario Gov't. Bldg., Dryden, Ont. P8N 2Z4
Phone (807) 223-3341

G. M. Tupling.....	District Manager
G. D. Tibbles (acting).....	Administration
J. A. MacDonald.....	Parks & Operations
F. D. Kennedy.....	Forests
H. Gibbard.....	Fish & Wildlife
E. M. Wires.....	Land Management

RED LAKE DISTRICT

Box 5003, Red Lake, Ont. POV 2M0
Phone (807) 727-2253

E. W. Everley.....	District Manager
B. A. Larkin.....	Administration/Operations
vacant.....	Fish & Wildlife
J. D. Lawson.....	Forests
P. J. Pincombe (acting).....	Land Management/Parks

IGNACE DISTRICT

Box 448, Ignace, Ont. POT 1T0
Phone (807) 934-2233

P. R. Wyatt.....	District Manager
W. . Brunton.....	Administration
P. R. Croskery.....	Fish & Wildlife
R. D. Scott.....	Forests
J. D. Bond.....	Field Services
vacant.....	Land Management

NORTH CENTRAL REGION

Box 5000, Ontario Government Building
 435 James St. South, Thunder Bay 'F' Ont. P7C 5G6
 Phone (807) 475-1261

G. P. Elliott.....	Regional Director	
E. E. Murphy.....	Deputy Reg. Director	
W. Hendry.....	Deputy Reg. Director	
N. Nurse.....	Admin. Co-ordinator.....	1221
R. T. Thomson.....	Biologist.....	1231
A. B. Johnson.....	Fire Mgt. Program Manager.....	1265
R. B. Adamsen.....	Engineer.....	1301
J. T. Rudolph.....	Forester.....	1251
D. J. Murray.....	Lands & Parks Co-ordinator.....	1321
M. N. Kantymir.....	Personnel.....	1201
J. E. Jackson.....	Senior Planner.....	1495
Vacant.....	Information Officer.....	1695

Dorion Fish Culture Station, P. Richard..... Phone (807) 857-2322
 Regional Fire Centre
 L. R. Hutchinson - Fire Services..... Phone (807) 475-1664
 R. Doyon - Fire Operation..... Phone (807) 475-1405
 Thunder Bay Forest Nursery, R. A. Klapprat..... Phone (807) 939-2561

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont. P7C 5G6
 Phone (807) 475-1511

T. R. Isherwood.....	District Manager
Vacant.....	Administration
H. D. Howell.....	Fish & Wildlife, Parks & Rec.
R. Calvert.....	Forests
J. W. Suttie.....	Lands & Eng. Serv.

GERALDTON DISTRICT

Box 640, Geraldton, Ont. POT 1MO
 Phone (807) 854-1030

E. H. Stone.....	District Manager
L. S. Morrow.....	Administration
W. J. Cook.....	Fish & Wildlife
D. Jovic.....	Forests
A. Hoshino.....	Lands, Parks & Eng. Services

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont. POT 1C0
Phone (807) 597-6971

S. Toole.....	District Manager
R. N. Boyle.....	Field Services and Administration
B. H. Gibson.....	Fish & Wildlife
.....	Forests
D. H. Elder.....	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont. POT 2J0
Phone (807) 887-2120

A. Currie.....	District Manager
M. Wilson.....	Administration
L. Townes.....	Fish & Wildlife
S. Tenaglia.....	Forests
D. Bean.....	Lands & Parks & Eng. Serv.

TERRACE BAY

Box 280, Terrace Bay, Ont. POT 2W0
Phone (807) 825-3205

P. A. Strassburger.....	District Manager
B. A. Prince.....	Field Services & Administration
J. A. Chappel.....	Fish & Wildlife
J. Nickleson.....	Lands & Parks

Manitouwadge Work Centre

Box 309, Manitouwadge, Ontario
POT 2C0 Phone (807) 826-3225

D. Gordon.....	Forests
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NORTHERN REGION

Box 3000, 140 Fourth Ave., Cochrane, Ont. POL 1C0
Phone (705) 272-4287

R. Riley.....	Regional Director
Vacant.....	Deputy Reg. Director
R. I. Thompson.....	Fin. & Admin. Co-ordinator
D. E. McHale	Deputy Reg. Director
60 Wilson Avenue, Timmins, Ont. P4N 2S7	
Phone (705) 267-1401	
H. I. Mattson.....	Outdoor Rec. Co-ordinator
J. S. Dougan.....	Personnel Manager
B. Blais.....	Fire Management Officer
C. Roswalka.....	Safety Manager
B. Sandilands.....	Planning/Lands/Eng. Co-ordinator
G. Oldford.....	Forester
R. J. Landry.....	Operations Manager
P. G. Mongraw.....	Systems Co-ordinator
D. G. O'Reilly.....	Information Officer

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane, Ont.
POL 1C0 Phone (705) 272-4365

G. E. Martelle.....	District Manager
E. R. Millar.....	Eng./Prk. Supervisor
D. Stillar.....	Forester
R. J. Jackson.....	Fish & Wildlife/Lands

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont P5N 2W4
Phone (705) 335-6191

R. G. Lightheart.....	District Manager
L. Keller.....	Operations Supervisor
C. Jessop.....	Fish & Wildlife
K. Buck.....	Forests
Vacant.....	Lands & Parks

CHAPLEAU DISTRICT

190 Cherry Street, Chapleau, Ont. POM 1K0
Phone (705) 864-1710

P. K. Bidwell (acting).....	District Manager
J. R. Russell.....	Operations Supervisor
P. W. Varrin.....	Fish & Wildlife
J. Gillham (acting).....	Forests
J. P. Dick.....	Lands & Waters
Vacant.....	Parks & Rec.

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont. POK 1T0
Phone (705) 642-3222

C. E. Emblin.....	District Manager
G. E. Allick.....	Operations Supervisor
L. Chamberlin.....	Fish & Wildlife
L. K. Ternent.....	Forests
J. A. Colquhoun.....	Lands

Swastika Forest Station, L. J. Forcier.....	Phone (705) 642-3255
Hill's Lake Trout Rearing Station, P. Graf.....	Phone (705) 544-2834

GOGAMA DISTRICT

P.O. Box 129, Low Avenue, Gogama, Ont. POM 1W0
Phone (705) 894-2000

D. Shewen (acting).....	District Manager (705) 267-7951
J. Deem.....	Officer-in-Charge Lands/Parks
R. Fink.....	Administration
D. B. Elliott.....	Fish & Wildlife
Vacant.....	Forests

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
Phone (705) 267-7951

D. Shewen (acting).....	District Manager
V. A. Mathieu.....	Operations Supervisor
J. Cavanaugh.....	Fish & Wildlife
J. S. Millar.....	Forests
C. R. Biggar.....	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst, Ont. POL 1N0
Phone (705) 362-4346

W. H. Therriault.....	District Manager
W. C. Trowsse.....	Administration
L. G. Woods.....	Field Services
S. St. Jules.....	Fish & Wildlife
C. Mason.....	Forests
M. J. Girouard.....	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee, Ont. POL 1Y0
Phone (705) 336-2987

J. Kenrick.....	District Manager
L. Bent.....	Administration
G. F. McAuley.....	Field Services
K. G. Abrahams.....	Biologist
C. Lauer.....	Outdoor Rec.
W. A. Hutchison.....	Lands

NORTHEASTERN REGION

199 Larch Street, 9th Floor, Sudbury, Ont. P3E 5P9
Phone (705) 675-4120

M. A. Klugman.....	Regional Director
J. E. Hamilton.....	Deputy Regional Director
Ms K. McWhirter.....	Regional Finances and Admin. Co-ordinator
B. T. Cannon.....	Regional Lands Administrator
Mrs. M. Chambers.....	Personnel Services Co-ordinator
R. G. Running.....	Regional Information Officer
A. W. McClellan.....	Cons. Auth. & Safety Program Supervisor
W. Belisle.....	Fire Management Program Manager
W. C. Stevens.....	Regional Forester
E. A. Wright.....	Parks/Rec. Co-ordinator
J. R. Chevalier.....	Regional Biologist
H. Walsh.....	Regional Engineer

Tarentorus Trout Rearing Station
Sault Ste. Marie..... Phone (705) 949-1235
R. D. Earl - Manager

North Bay Trout Rearing Station
M. Bohm - Manager..... Phone (705) 663-2311

Sandfield Fish Hatchery
G. Clarke - Manager
Espanola..... Phone (705) 859-3370

Kirkwood Nursery..... Phone (705) 842-3914
G. W. Connell - Superintendent

SAULT STE. MARIE DISTRICT

Box 130, 875 Queen St., Sault Ste. Marie, Ont. P6A 5L5
Phone (705) 949-1231

J. F. Christian.....	District Manager
H. J. Smith.....	Administration Supvr.
E. R. Thomas.....	Fish & Wildlife Supvr.
B. Smith.....	Forests Mgt. Supvr.
I. J. Valentine.....	Lands & Parks Supvr.
E. Vaughan.....	Engineering Services Suprv.

SUDBURY DISTRICT

Box 3500, Stn. A, Sudbury, Ont. P3A 4S2
Phone (705) 522-7823

J. A. Simpson.....	District Manager
M. H. Jackson.....	District Administration Supvr.
G. J. Haarmeyer.....	Fish & Wildlife Supvr.
D. R. Potvin.....	Forests Management Supvr.
M. K. Smith.....	Lands Supvr.
D. H. Brunette.....	Parks Supvr.

NORTH BAY DISTRICT

Box 3070, R.R. #3, Hwy. 63
North Bay, Ont. P1B 8K7
Phone (705) 474-5550

J. R. Morin.....	District Manager
G. E. Lacelle.....	District Admin. Supvr.
M. R. Wolfe.....	Fish & Wildlife Supvr.
D. E. Honeyborne.....	Forests Management Supvr.
R. V. Coulombe.....	Lands Management Supvr.
F. C. Shaver.....	Parks Supvr.

BLIND RIVER DISTRICT

Box 190, 62 Queen St., Blind River, Ont. POR 1B0
Phone (705) 356-2234

B. Lannin.....	District Manager
F. McWhinnie.....	Administration Supvr.
S. B. Woodside.....	Fish & Wildlife Supvr.
C. F. Husk.....	Forests Management Supvr.
R. H. Wood.....	Lands Supvr.

WAWA DISTRICT

Box 1160, 22 Mission Road, Wawa, Ont. POS 1K0
Phone (705) 856-2396

J. Chevalier (acting).....	District Manager
Mrs. J. M. Kern.....	District Admin. Supvr.
A. J. Bull.....	Field Services Supvr.
E. Armstrong.....	Fish & Wildlife Supvr.
C. K. Sumi.....	Forests Management Supvr.
E. V. Uhler.....	Lands Supvr.
A. L. Robinson.....	Parks Supvr.

ESPANOLA DISTRICT

Box 1340, 148 Fleming St., Espanola, Ont. POP 1C0
 Phone (705) 869-1330

E. N. Arbuckle.....	District Manager
Mrs S. Catling.....	District Admin. Supvr.
D. R. Hughson.....	Outdoor Recreation Supvr.
H. A. Liljalehto.....	Forests Management Supvr.
D. C. Carnochan.....	Lands Management Supvr.

TEMAGAMI DISTRICT

Box 38, Lakeshore Dr., Temagami, Ont. POH 2H0
 Phone (705) 569-3622

J. L. Hamill.....	District Manager
C. M. Hamilton.....	District Admin. Supvr.
B. A. Hillier.....	Forests Management Supvr.
R. B. Sinclair.....	Lands Supvr.
M. France-Bernier.....	Outdoor Recreation Supvr.

ALGONQUIN REGION

Box 9000, Brendale Square, Huntsville, Ont. POA 1K0
Phone (705) 789-9611

R. M. Christie.....	Regional Director
J. H. Lever.....	Deputy Reg. Director
J. Carswell.....	Admin. Co-ordinator
P. A. Smith.....	Regional Biologist
A. P. Stephen.....	Regional Engineer
B. Petman.....	Program Manager - Fire Management
T. E. Dodds.....	Regional Forester
J. A. van der Meer.....	Lands & Systems Co-ordinator
G. M. Moroz.....	Parks & Recreation Co-ordinator
R. P. Dubien.....	Systems Analyst

Pembroke Trout Rearing Station (Privatized - Envirocon Ltd.)
Phone (613) 687-5935

Skeleton Lake Fish Hatchery

C. Core..... Phone (705) 769-3731

Haliburton-Hastings Fisheries

Assessment Unit..... Phone (613) 332-3940

Algonquin Park Fisheries

Assessment Unit..... Phone (705) 637-2780

Fire Management - Inside Fire Region
Fire Operations Managers

J. McCabe.....	Parry Sound.....	(705) 746-4201
T. Russell....	Minden.....	(705) 475-2107
B. Gagnon.....	Pembroke.....	(613) 732-3661
P. Gallagher..	Tweed.....	(613) 478-2330

PARRY SOUND DISTRICT

4 Miller St, Parry Sound, Ont. P2A 1S8
Phone (705) 746-4201

W. J. Lovering.....	District Manager
F. Buchan.....	Administration & Support Services
J. F. Gardner.....	Fish & Wildlife
G. C. Felton.....	Forests
L. W. Eaton.....	Parks
L. A. Connelly.....	Lands & Waters

BANCROFT DISTRICT

Box 500, Bancroft, Ont. KOL 1C0
Phone (613) 332-3940

D. J. Vance.....	District Manager
D. H. Loftus.....	Support Services
V. B. Collins.....	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan.....	Petroglyphs Park
O. J. Fleming.....	Lands & Parks Supervisor

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont. KOJ 2M0
Phone(705) 637-2780

G. R. Whitney.....	Park Supt./District Manager
E. A. Dayment.....	Administration
D. F. George.....	Forests
L. L. Powell.....	Outdoor Recreation (Parks, F&W)
B. A. Norris.....	Field Services & Lands

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont. K8A 6X4
Phone (613) 732-3661

L. J. Haas.....	District Manager
A. H. Plummer.....	Administration & Support Services
A. E. Armstrong.....	Fish & Wildlife
R. C. A. Gilbert.....	Forests
G. D. Yarranton.....	Lands & Mines
E. N. McKenzie.....	Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont. POB 1C0
Phone (705) 645-8747

H. P. Endress.....	District Manager
J. A. Hamilton.....	Administration
	& Support Services
Vacant.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant.....	Lands
R. G. Ellis.....	Parks

MINDEN DISTRICT

Minden, Ont. KOM 2K0
Phone (705) 286-1521

D. D. White.....	District Manager
R. E. Raby.....	Administration &
	Support Services
S. T. Flemming.....	Fish & Wildlife
B. G. Cross.....	Forests
J. E. Dewey.....	Lands, Parks & Services

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. POA 1E0
Phone (705) 766-2451

D. D. White.....	Director
R. W. Stewart.....	Plan & Management Supt.
W. A. Chambers.....	Operations Supt.
E. F. Cyr.....	Field Operations Suprv.
T. G. Wright.....	Food Services
H. J. Barnhart.....	Maintenance Foreman

Specialists:

Vacant.....	Forestry
M. E. Buss.....	Fish & Wildlife
C. K. Macdonald.....	Recreation
R. R. Keevil (Acting).....	Lands
S. A. Williams.....	Visitor Services

EASTERN REGION

Provincial Government Building,
Concession Road, Kemptville, Ont. K0G 1J0
Phone (613) 258-3413

J. R. Oatway.....	Regional Director
D. E. Gage.....	Deputy Reg. Director, Resources
J. S. Anderson.....	Deputy Reg. Director, Services
J. R. Bailey.....	Admin. Co-ordinator
J. C. Williamson.....	Biologist
J. D. Murray.....	Lands & Cons. Auth. Prg. Supervisor
W. P. Barber.....	Parks & Rec. Co-ordinator
J. R. Stork.....	Engineer
T. W. Fletcher.....	Mines Co-ordinator
P. E. Anslow.....	Forester
D. G. Kennedy.....	Fire Management Co-ordinator

Codrington Fish Hatchery
G. E. Raine..... Phone (613) 475-2512

White Lake Fish Hatchery
K. Steele..... Phone (613) 335-2115

Westport Fish Hatchery
K. Steele..... Phone (613) 273-2106

G. Howard Ferguson Forest Station
A. J. Campbell..... Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont. K0K 3J0
Phone (613) 478-2330

R. N. Kervin.....	District Manager
G. J. O'Hearn.....	Administration & Field Services
M. J. Williams.....	Lands
T. C. Corbett.....	Outdoor Rec.
A. J. Denys.....	Forests

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont. K7R 3S3
Phone (613) 354-2173

R. W. Beecher.....	District Manager
R. A. Armstrong.....	Finance, Administration & Field Services
R. W. Baldwin.....	Fish & Wildlife
R. Griffiths.....	Lands
J. C. Matheson.....	Parks
S. Thatcher.....	Mineral Resources

BROCKVILLE DISTRICT

Box 605, Oxford Ave., Brockville, Ont. K6V 5Y8
Phone (613) 342-8524

W. V. Hardy.....	District Manager
D. G. Gilmer.....	Finance, Administration & Field Services
G. L. Penney.....	Fish & Wildlife
W. M. Fasken.....	Forests
G. Tabobondune.....	Lands & Field Services
B. A. Barkley.....	Fast Growing Hardwoods Group
S. Thatcher (at Napanee).....	Mineral Resources

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont. K7C 3Z6
Phone (613) 257-5735

M. S. Millar.....	District Manager
G. N. Sanderson.....	Finance, Administration & Field Services
J. D. McCready.....	Forests
R. N. Jones.....	Fish & Wildlife
R. M. Rogers.....	Lands
M. A. MacDonald.....	Mineral Resources
K. J. Schonauer.....	Parks

CORNWALL DISTRICT

113 Amelia St. Cornwall, Ont. K6H 5V7
Phone (613) 933-1774

R. J. Cleroux.....	District Manager
W. J. Humphrys.....	Finance, Administration & Field Services
E. McGregor.....	Fish & Wildlife
B. W. Warwick.....	Forest Management
K. E. Green.....	Parks & Recreation
B. W. McCue.....	Lands & Mineral Resources

CENTRAL REGION

10670 Yonge St., Richmond Hill, Ont. L4C 3C9
Phone (416) 884-9203

M. B. Fordyce.....	Regional Director.....	883-3256
A. D. Latornell.....	Deputy Reg. Director.....	883-3258
H. Tjoelker.....	A/Deputy Reg. Director.....	883-3255
R. M. Clouthier.....	A/Support Services Co-ordinator....	883-3201
J. B. Dawson.....	Biologist.....	883-3227
J. J. McFadden.....	Cons. Auth. Co-ordinator.....	883-3262
E. L. Borczon.....	Forester.....	883-3254
M. Narain.....	Geologist.....	883-3214
T. M. Kurtz.....	Engineer.....	883-3279
J. T. Griffin.....	Parks Rec. Co-ordinator.....	883-3240
M. A. Groneng.....	Lands & Mines Co-ordinator.....	883-3216
D. P. Kolenosky.....	Systems Co-ordinator.....	883-3200
R. F. Kennedy.....	Personnel Officer.....	883-3250
K. G. Higgs.....	Niagara Escarpment Co-ordinator....	883-3220

Midhurst Forest Station, Midhurst

K. H. Reese..... Phone (705) 728-2900

Orono Forest Station, Orono

G. R. McLeod..... Phone (416) 983-9147

Ontario Tree Seed Plant, Angus

B. D. Swaile..... Phone (705) 424-5311

Deer Lake Fish Hatchery, R.R.#1, Havelock

G. T. Cation..... Phone (705) 778-3391

Ringwood Fish Hatchery

B. A. Marchant..... Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont. LOJ 1E0

Phone (416) 832-2761

I. B. Earl.....	District Manager.....	203
W. B. Pottelberg.....	Support Services.....	300
R. L. Desjardine.....	Outdoor Recreation.....	211
Si Dae Kim.....	Forests.....	224
B. Anderson.....	Lands & Mineral Resources.....	208

LINDSAY DISTRICT

322 Kent St. West, Lindsay, Ont. K9V 4T7
Phone (705) 324-6121

W. H. Forman.....	District Manager
A. V. Kaufman.....	Support Services
P. Drysdale.....	Fish & Wildlife
G. Higham.....	Forests
L. C. Selby.....	Lands & Minerals
G. Scott.....	Parks

HURONIA DISTRICT

Midhurst, Ont. L0L 1X0
Phone (705) 728-2900

W. D. Mansell.....	District Manager
D. H. Poff.....	Support Services
A. W. Smith.....	Fish & Wildlife
R. O. Brandes.....	Forests
D. R. MacArthur.....	Services
J. R. Winters.....	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont. N3C 2W1
Phone (519) 658-9355

W. R. Catton.....	District Manager
B. J. DeGunst.....	Support Services
C. Selby.....	Fish & Wildlife
S. Yorgan.....	Forest Management
B. L. Houck.....	Parks
D. A. Routly.....	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Hwy. 20, Fonthill, Ont. L0S 1E0
Phone (416) 892-2656

A. Harjula.....	District Manager
A. J. Vos.....	Support Services
E. A. Kraker.....	Forests
D. Euler.....	Outdoor Rec.
J. Z. Fraser.....	Lands & Minerals

SOUTHWESTERN REGION

659 Exeter Rd., Box 5463, London, Ont. N6A 4L6

Regional Director.....	D. W. Schafer.....	(519) 661-2743
Deputy Reg. Director.....	A. J. Stewart.....	(519) 661-2734
Deputy Reg. Director.....	R. G. Elliott.....	(519) 661-2734
Secretary.....	J. M. Nagle.....	(519) 661-2779

General Inquiry.....	.....	(519) 661-2800
EOS (Electronic Office Service).....	.....	MNR-800

Co-ordinators

Finance and Administration.....	B. G. Griffin.....	(519) 661-2752
Fisheries.....	H. A. Orr.....	(519) 661-2739
Conservation Authorities.....	R. W. Messervey.....	(519) 661-2736
Forestry and Wildlife.....	J. A. Fingland.....	(519) 661-2741
Parks and Recreation.....	P. H. Sturdy.....	(519) 661-2742
Enforcement.....	R. P. Wells.....	(519) 661-2740
Personnel.....	D. C. Watt.....	(519) 661-2733
Mineral Resources.....	P. A. Palonen.....	(519) 661-2711
Engineering.....	P. H. Crook.....	(519) 661-2722
Communications.....	J. N. Cooper.....	(519) 661-2730
Planning.....	I. C. Seddon.....	(519) 661-2727

Petroleum Resources Laboratory...		(519) 661-2765
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CHATHAM DISTRICT

Box 1168, 435 Grand Avenue, Chatham, Ont. N7M 5L8

Phone (519) 354-7340

W. L. McNab.....	District Manager
B. Hall.....	Support Services
K. Yaraskavitch.....	Resource Planning
A. D. Carr.....	Operations
H. W. Rowe.....	Extension Services
H. Manson.....	Station Manager
	Lake Erie Fisheries Unit

SIMCOE DISTRICT

548 Queensway West, Simcoe, Ont. N3Y 4T2
Phone (519) 426-7650

M. F. McKenzie.....	District Manager
A. McGarrity.....	Support Services
J. M. Collins.....	Resource Planning
R. Manley.....	Operations
W. L. Edwards.....	Extension Services

OWEN SOUND DISTRICT

611 Ninth Avenue East, Owen Sound, Ont. N4K 3E4
Phone (519) 376-3860

R. W. Tippet.....	District Manager
M. Gobeil.....	Support Services
S. A. Monroe.....	Lake Huron Fishery Operations Co-ordinator
W. J. Lambie.....	Resource Planning
P. H. Baxter.....	Operations
K. Hawthorne.....	Extension Services
E. G. Walker.....	Reg. Fire Co-ordinator

WINGHAM DISTRICT

R.R. #5, Wingham, Ont. NOG 2W0
Phone (519) 357-3131

A. M. Houser.....	District Manager
O. E. Crawford.....	Support Services
W. A. Creighton.....	Resource Planning
H. R. Lancaster.....	Operations
R. H. Spurr.....	Extension Services

AYLMER DISTRICT

353 Talbot St. W., Aylmer, Ont. N5H 2S8
Phone (519) 773-9241

D. G. Watton.....	District Manager
D. L. Clarke.....	Support Services
G. R. Austin.....	Operations
W. C. Gilmore.....	Resource Planning
D. G. Ward.....	Extension Services
J. W. E. Lau.....	Mineral Resources

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